



**UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM
OF HIGHER EDUCATION**

Consolidated Financial Statements and Independent Auditors' Reports
Required by Title 2 U.S. Code of Federal Regulations Part 200, *Uniform
Administrative Requirements, Cost Principles, and Audit Requirements for
Federal Awards*, and Related Information

Year ended June 30, 2019

**UNIVERSITY OF PITTSBURGH – OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

June 30, 2019

Table of Contents

	Page
Independent Auditors' Report	
Consolidated Balance Sheets	1
Consolidated Statement of Activities	2
Consolidated Statements of Cash Flows	4
Notes to Consolidated Financial Statements	5
Schedule of Expenditures of Federal Awards	34
Notes to Schedule of Expenditures of Federal Awards	62
Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With <i>Government Auditing Standards</i>	64
Independent Auditors' Report on Compliance for Each Major Federal Program; Report on Internal Control Over Compliance; and Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance	66
Schedule of Findings and Questioned Costs	68



KPMG LLP
BNY Mellon Center
Suite 3400
500 Grant Street
Pittsburgh, PA 15219-2598

Independent Auditors' Report

The Board of Trustees of the
University of Pittsburgh – Of the Commonwealth
System of Higher Education:

Report on the Financial Statements

We have audited the accompanying consolidated financial statements of the University of Pittsburgh – Of the Commonwealth System of Higher Education (the University), which comprise the consolidated balance sheets as of June 30, 2019 and 2018, and the related consolidated statements of activities, and cash flows for the years then ended, and the related notes to the consolidated financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of the University of Pittsburgh – Of the Commonwealth System of Higher Education as of June 30, 2019 and 2018, and the changes in its net assets and its cash flows for the years then ended in accordance with U.S. generally accepted accounting principles.



Emphasis of Matter

As discussed in Note 1 to the consolidated financial statements, in 2019, the University of Pittsburgh – Of the Commonwealth System of Higher Education adopted Accounting Standards Update (ASU) 2016-14, *Presentation of Financial Statements of Not-for-Profit Entities*; ASU 2014-09, *Revenue from Contracts with Customers (Topic 606)*, as amended; ASU 2018-08, *Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made*; and ASU 2017-07, *Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*. Our opinion is not modified with respect to these matters.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated October 16, 2019 on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

KPMG LLP

Pittsburgh, Pennsylvania
October 16, 2019

CONSOLIDATED FINANCIAL STATEMENTS

UNIVERSITY OF PITTSBURGH
CONSOLIDATED BALANCE SHEETS
JUNE 30, 2019 AND 2018
(in thousands of dollars)

	2019	2018
ASSETS:		
Cash and cash equivalents (Notes 1, 2 and 6)	\$ 10,521	\$ 45,809
Operating investments (Notes 1, 2, 5 and 6)	469,630	382,935
Inventories and deferred charges	35,656	23,556
Accounts and notes receivable, net (Notes 2 and 3)	266,984	229,576
Contributions receivable, net (Notes 1 and 4)	55,663	60,161
Student loans receivable, net	36,811	40,611
Foundation assets (Note 1)	30,903	29,697
Endowment investments (Notes 5 and 6)	4,342,563	4,226,330
Endowed funds held by third parties (Note 6)	23,677	23,591
Property, plant, and equipment, net (Note 7)	1,929,919	1,834,129
TOTAL ASSETS	\$ 7,202,327	\$ 6,896,395
LIABILITIES:		
Accounts payable and accrued expenses	\$ 106,235	\$ 99,001
Accrued payroll and related liabilities	81,987	80,804
Deferred student and other revenue (Note 1)	48,101	52,955
Advanced receipt of grant funds (Note 1)	73,708	68,321
Refundable U.S. government student loans	32,978	34,373
Other liabilities (Notes 6 and 9)	138,004	90,375
Pension and postretirement obligations (Note 10)	622,845	550,588
Conditional asset remediation obligation (Note 7)	30,022	29,764
Bonds and notes payable (Note 8)	899,687	833,420
TOTAL LIABILITIES	2,033,567	1,839,601
NET ASSETS:		
Without donor restrictions (Notes 1 and 11)		
Endowment designated for financial aid	1,704,446	1,683,220
Other designated endowments	947,923	934,324
Net invested in plant and other	763,467	729,390
Total without donor restrictions	3,415,836	3,346,934
With donor restrictions (Notes 1 and 11)		
Endowments	1,663,466	1,607,760
Other	89,458	102,100
Total with donor restrictions	1,752,924	1,709,860
TOTAL NET ASSETS	5,168,760	5,056,794
TOTAL LIABILITIES AND NET ASSETS	\$ 7,202,327	\$ 6,896,395

The accompanying notes are an integral part of these consolidated financial statements.

CONSOLIDATED FINANCIAL STATEMENTS

UNIVERSITY OF PITTSBURGH
CONSOLIDATED STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED JUNE 30, 2019
COMPARED TO SUMMARY INFORMATION FOR THE YEAR ENDED JUNE 30, 2018
(in thousands of dollars)

	2019			
	Without Donor Restrictions	With Donor Restrictions	Total	2018
OPERATING REVENUES:				
Tuition and fees (net of tuition discounts of \$206.0 million and \$192.7 million)	\$ 639,561	\$ -	\$ 639,561	\$ 628,481
Commonwealth appropriation	174,675	-	174,675	169,680
Commonwealth construction grants	-	8,781	8,781	21,582
Research grants and contracts	859,690	-	859,690	808,082
Contributions for operations	33,216	17,831	51,047	77,638
Endowment distributions and investment income	157,031	-	157,031	143,535
Sales and services, educational and other	292,912	-	292,912	256,877
Sales and services, auxiliary	151,020	-	151,020	151,688
Rental revenue	18,253	-	18,253	18,444
Net assets released from restrictions	42,037	(42,037)	-	-
Total operating revenues	2,368,395	(15,425)	2,352,970	2,276,007
OPERATING EXPENSES:				
Salaries and wages	1,055,046	-	1,055,046	1,005,074
Fringe benefits	300,091	-	300,091	286,230
Total compensation	1,355,137	-	1,355,137	1,291,304
Supplies	122,669	-	122,669	112,032
Business and professional	374,303	-	374,303	350,407
Facilities	103,357	-	103,357	95,105
Depreciation	184,835	-	184,835	177,210
Interest	30,137	-	30,137	30,171
Rent	52,507	-	52,507	50,083
Other	42,301	-	42,301	46,912
Total operating expenses (Note 13)	2,265,246	-	2,265,246	2,153,224
Change in net assets from operating activities	103,149	(15,425)	87,724	122,783
OTHER ACTIVITIES:				
Investment gains, net of endowment distributions for operations	44,111	27,464	71,575	206,836
Contributions for endowment	-	31,025	31,025	24,297
Change in fair value of interest rate swaps (Note 9)	(20,765)	-	(20,765)	20,526
Deferred tax benefit (Note 1)	11,355	-	11,355	-
Other components of net periodic benefit cost (Note 10)	(22,241)	-	(22,241)	(22,437)
Nonperiodic changes in benefit plans (Note 10)	(46,707)	-	(46,707)	29,719
Total other activities	(34,247)	58,489	24,242	258,941
CHANGE IN NET ASSETS	68,902	43,064	111,966	381,724
NET ASSETS, BEGINNING OF YEAR	3,346,934	1,709,860	5,056,794	4,675,070
NET ASSETS, END OF YEAR	\$ 3,415,836	\$ 1,752,924	\$ 5,168,760	\$ 5,056,794

The accompanying notes are an integral part of these consolidated financial statements.

UNIVERSITY OF PITTSBURGH
CONSOLIDATED STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED JUNE 30, 2018
(in thousands of dollars)

	2018		
	Without Donor Restrictions	With Donor Restrictions	Total
OPERATING REVENUES:			
Tuition and fees (net of tuition discounts of \$192.7 million)	\$ 628,481	\$ -	\$ 628,481
Commonwealth appropriation	169,680	-	169,680
Commonwealth construction grants	-	21,582	21,582
Research grants and contracts	808,082	-	808,082
Contributions for operations	31,627	46,011	77,638
Endowment distributions and investment income	143,535	-	143,535
Sales and services, educational and other	256,877	-	256,877
Sales and services, auxiliary	151,688	-	151,688
Rental revenue	18,444	-	18,444
Net assets released from restrictions	29,894	(29,894)	-
Total operating revenues	2,238,308	37,699	2,276,007
OPERATING EXPENSES:			
Salaries and wages	1,005,074	-	1,005,074
Fringe benefits	286,230	-	286,230
Total compensation	1,291,304	-	1,291,304
Supplies	112,032	-	112,032
Business and professional	350,407	-	350,407
Facilities	95,105	-	95,105
Depreciation	177,210	-	177,210
Interest	30,171	-	30,171
Rent	50,083	-	50,083
Other	46,912	-	46,912
Total operating expenses (Note 13)	2,153,224	-	2,153,224
Change in net assets from operating activities	85,084	37,699	122,783
OTHER ACTIVITIES:			
Investment gains, net of endowment distributions for operations	140,366	66,470	206,836
Contributions for endowment	-	24,297	24,297
Change in fair value of interest rate swaps (Note 9)	20,526	-	20,526
Deferred tax benefit (Note 1)	-	-	-
Other components of net periodic benefit cost (Note 10)	(22,437)	-	(22,437)
Nonperiodic changes in benefit plans (Note 10)	29,719	-	29,719
Total other activities	168,174	90,767	258,941
CHANGE IN NET ASSETS	253,258	128,466	381,724
NET ASSETS, BEGINNING OF YEAR	3,093,676	1,581,394	4,675,070
NET ASSETS, END OF YEAR	\$ 3,346,934	\$ 1,709,860	\$ 5,056,794

The accompanying notes are an integral part of these consolidated financial statements.

CONSOLIDATED FINANCIAL STATEMENTS

UNIVERSITY OF PITTSBURGH
CONSOLIDATED STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED JUNE 30, 2019 AND 2018
(in thousands of dollars)

	2019	2018
CASH AND CASH EQUIVALENTS:		
End of year	\$ 10,521	\$ 45,809
Beginning of year	45,809	22,494
CHANGE IN CASH AND CASH EQUIVALENTS	\$ (35,288)	\$ 23,315
CASH FLOWS FROM OPERATING ACTIVITIES:		
Change in net assets	\$ 111,966	\$ 381,724
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation	184,835	177,210
Deferred tax benefit	(11,355)	-
Other components of net periodic benefit cost	22,241	22,437
Nonperiodic changes in benefit plans	46,707	(29,719)
Amortization of debt issuance costs and bond premiums, net	279	66
Loss on disposal of plant assets	2,301	1,719
Investment gains	(200,369)	(321,918)
Change in fair value of interest rate swaps	20,765	(20,526)
Contributions restricted for long-term investment	(41,341)	(47,453)
Changes in operating assets and liabilities:		
Accounts, notes, contributions, and loans receivable, net	(35,414)	(67,891)
Other assets	(745)	(2,632)
Accounts payable and accrued expenses	7,720	(355)
Pension and postretirement obligations	3,309	3,784
Conditional asset remediation obligation	258	(880)
Other liabilities	3,522	(1,404)
Government student loans and deferred revenue	(862)	4,012
Net cash provided by operating activities	113,817	98,174
CASH FLOWS FROM INVESTING ACTIVITIES:		
Expended for property, plant, and equipment - University	(249,620)	(208,380)
Expended for property, plant, and equipment - commonwealth	(8,781)	(21,582)
Change in accounts payable for property, plant, and equipment	(486)	3,324
Purchases/sales of operating investments, net	(76,910)	133,065
Purchases of endowment investments	(4,135,729)	(2,411,292)
Proceeds from sales/maturities of endowment investments	4,210,040	2,482,201
Change in endowed funds held by third parties, excluding gains	(46)	(43)
Change in foundation assets	(1,206)	(1,804)
Net cash used for investing activities	(262,738)	(24,511)
CASH FLOWS FROM FINANCING ACTIVITIES:		
Principal repayment of debt including bond refundings	(43,600)	(106,025)
Proceeds from issuance of debt	109,588	-
Contributions restricted for long-term investment	47,645	55,677
Net cash provided by (used for) financing activities	113,633	(50,348)
CHANGE IN CASH AND CASH EQUIVALENTS	\$ (35,288)	\$ 23,315
Supplemental disclosure of cash flow information:		
Cash paid for interest (excluding fees)	\$ 30,282	\$ 30,401
Noncash investing activity for property, plant, and equipment - accounts payable and capital lease obligations	\$ 52,637	\$ 28,598

The accompanying notes are an integral part of these consolidated financial statements.

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING AND REPORTING PRACTICES

Organization

Founded in 1787, the University of Pittsburgh (the University) is one of the oldest institutions of higher education in the United States. The University's mission is to provide high-quality undergraduate and graduate programs in the arts and sciences and professional fields; engage in research, artistic, and scholarly activities that advance learning through the extension of the frontiers of knowledge and creative endeavor; cooperate with industrial and governmental institutions to transfer knowledge in science, technology, and health care; offer continuing educational programs adapted to the personal enrichment, professional upgrading, and career advancement interests and needs of adult Pennsylvanians; and make available to local communities and public agencies the expertise of the University in ways that are consistent with the primary teaching and research functions and contribute to social, intellectual, and economic development in the commonwealth, the nation, and the world.

The University's main campus in the City of Pittsburgh comprises 16 schools and several academic centers educating nearly 29,000 students in various undergraduate, graduate, and doctorate-professional programs. Four regional campuses with a total enrollment approximating 5,600 students are located throughout western Pennsylvania.

Relationship with the Commonwealth of Pennsylvania

The University derives its corporate existence under the laws of the Commonwealth of Pennsylvania (the commonwealth) by reason of the act of the General Assembly of the commonwealth establishing an "Academy or Public School in the town of Pittsburgh" on February 28, 1787 and from the act of February 18, 1819

incorporating the "Western University of Pennsylvania." In 1908, the University's name was changed to the "University of Pittsburgh" by order of the Court of Common Pleas of Allegheny County. In 1966, the Pennsylvania State Legislature enacted the "University of Pittsburgh-Commonwealth Act," which changed the name of the University to the "University of Pittsburgh – of the Commonwealth System of Higher Education" and established the University as an instrumentality of the commonwealth to serve as a state-related institution in the Commonwealth System of Higher Education. The University is a Pennsylvania nonprofit corporation subject to the Nonprofit Corporation Law of 1988.

The entire management, control, and conduct of the instructional, administrative, and financial affairs of the University are vested in the Board of Trustees. The Board of Trustees is comprised of fifty-two members (thirty-six voting members), including twelve commonwealth trustees and sixteen special trustees elected by the board. Special trustees may attend all meetings of the board and are entitled to and exercise all rights, responsibilities, and privileges of trusteeship, except the right to vote at board meetings.

Funding from the Commonwealth of Pennsylvania

As a state-related institution, the University receives an annual appropriation from the commonwealth. There is no assurance that such appropriation will continue to be made, or will be made, at current levels or at levels requested by the University. In addition, the commonwealth also funds certain capital projects in support of the University's mission, as well as support for sponsored research programs, as presented in the following table:

	2019	2018
	<i>(in thousands of dollars)</i>	
Commonwealth appropriation:		
General support	\$ 148,536	\$ 144,210
Rural Education Outreach	2,846	2,763
Supplemental funds – Academic Medical Centers and general support	23,293	22,707
Total commonwealth appropriation	174,675	169,680
Commonwealth construction grants	8,781	21,582
Commonwealth sponsored research programs	13,918	12,703
Total	\$ 197,374	\$ 203,965

Basis of Presentation

The consolidated financial statements include the accounts of the University, which do not include the net assets or activities of the University of Pittsburgh Medical Center (UPMC) or the University of Pittsburgh Physicians (UPP) clinical practice plans, as they are separate legal entities not controlled by the University. The University does have the right to designate one-third of the members of the UPMC Board of Directors and any Executive Committee thereof.

The other activities section of the Consolidated Statements of Activities includes investment gains, net of endowment distributions for operations; contributions for endowment; change in fair value of interest rate swaps; deferred tax benefit; other components of net periodic benefit cost; and nonperiodic changes in pension and postretirement benefit plans. Endowment distributions for operations represent those distributions not reinvested in the endowment (see Note 12).

Basis of Accounting

The consolidated financial statements have been prepared on the accrual basis of accounting in conformity with accounting principles generally accepted in the United States of America (GAAP) as promulgated by the Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) 958, *Not-for-Profit Entities*.

The University's net assets have been classified in accordance with the presence or absence of donor-imposed restrictions and are reported as follows:

- Net assets without donor restrictions - Includes revenues, gains, and losses, which are free from donor restriction and are available for the general operating purposes of the University. All University expenses are reported as a reduction in net assets without donor restrictions. This class of net assets includes contributions and endowment distributions whose donor-imposed restrictions have been met within the fiscal year as well as endowment funds designated by the University's Board of Trustees or management. Restrictions are considered to be released if unrestricted resources are used for a purpose for which restricted resources are available. Contributions for capital construction or acquisition are reported as net assets without donor restriction once the asset is placed into service.

- Net assets with donor restrictions - Includes donor-imposed restrictions that may be met by the University through the passage of time or through the use of such funds in accordance with the donor's wishes. These funds include endowed contributions and pledges requiring that the original corpus be maintained in perpetuity. The distributions generated by these contributions may be either expended or reinvested in the endowment in accordance with donor restrictions and endowment contribution and spending policies. This net asset category also includes donor restricted funds to be used as revolving student loan funds in perpetuity.

Donor restricted contributions are reported as increases in net assets with donor restrictions. When a restriction expires, net assets are reclassified from net assets with donor restrictions to net assets without donor restrictions in the Consolidated Statements of Activities.

Estimates

Preparation of the consolidated financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results could differ materially from those estimates.

Revenue Recognition – Contracts with Customers and Accounts Receivable

In May 2014, FASB issued ASU No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*, which, along with related amendments, replaces the existing revenue recognition requirements in GAAP. The core principle of Topic 606 is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration it expects to be entitled in exchange. In addition, Topic 606 requires disclosures about the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. Topic 606 also requires that tuition, fees, and auxiliary student revenues be presented in the Consolidated Statements of Activities at the transaction price, net of student aid (tuition discounts). Previously, such revenues were presented gross – at published rates – followed by a reduction for student aid. Accordingly, the University's 2018 Consolidated Statement of Activities has been revised to conform to the 2019 presentation.

The following table presents the University's net revenue subject to Topic 606:

	2019	2018
	<i>(in thousands of dollars)</i>	
Net tuition and fees	\$ 639,561	\$ 628,481
Sales and services, educational and other	292,912	256,877
Sales and services, auxiliary	151,020	151,688
Total	\$ 1,083,493	\$ 1,037,046

Revenues are recognized when control of the promised goods or services is transferred to the institutions' students or customers, in an amount that reflects the consideration the University expects to be entitled to in exchange for those goods or services. The University uses the portfolio approach, a practical expedient, to evaluate if a contract exists and to assess collectability at the time of contract inception based on historical experience. Contracts are subsequently reviewed for collectability periodically.

Tuition and fees include tuition from undergraduate, graduate and doctorate-professional programs (net of discounts), and various academic related fees. The University recognizes this revenue as the academic services are rendered and the performance obligation is met, which occurs ratably over the applicable period of instruction or academic term. Undergraduate programs totaled 71.7% and 71.6% of net tuition and fees in 2019 and 2018, respectively.

Tuition discounts are recorded to the extent that either institutional financial aid or aid funded by contributions, endowment distributions, and grant activities are awarded. Tuition discounts awarded in 2019 and 2018 were \$206.0 million and \$192.7 million, respectively. The portion of tuition discounts attributable to institutional funds in 2019 and 2018 were \$174.1 million and \$163.9 million, respectively. Tuition discounts attributable to contributions, donor-restricted endowment distributions, and grant activities were \$31.9 million and \$28.8 million in 2019 and 2018, respectively. Such discounts are reflected within net tuition and fees.

Sales and services, education and other includes revenues from UPMC and UPP to support teaching, research, and community service functions at the University, and revenues from activities to provide students an enhanced

educational experience including athletics, student services, and the study abroad program. UPMC and UPP revenue comprises 62.2% and 57.5% of this total in 2019 and 2018, respectively. Revenue is recognized for these activities as performance obligations are met.

Sales and services, auxiliary includes revenues from activities conducted primarily to provide goods or services for students, faculty, and staff. Housing and meal plan revenue in 2019 and 2018 comprised 84.1% and 84.2%, respectively, and are recognized as performance obligations are met, which occurs ratably over the academic term. The remaining revenue consists primarily of book store and parking operations, which is generally recognized at the point of sale.

Students are invoiced prior to the start of the term and payment is generally due within three weeks of the start of classes. Student charges are comprised of all educational related items including tuition and educational materials. Receivables related to sales and services are invoiced based upon contractual terms with students and others.

The University maintains allowances for doubtful accounts to reflect management's best estimate of probable losses inherent in receivable balances. Management determines the allowances for doubtful accounts based on known troubled accounts, the age of the receivable, the anticipated source of payment, historical allowance considerations, and other currently available evidence. Consideration is also given to any specific known risk areas among the existing accounts receivable balances. Receivables are written off when management determines they will not be collected. Recoveries of receivables previously written off are recorded when received.

The University has no significant contract assets or deferred contract costs at June 30, 2019 and June 30, 2018.

The University recognizes a contract liability, or deferred revenue, for payments received in advance of providing services under certain contracts. Contract liabilities include advanced receipt of student tuition and fees, athletic ticket sales, and housing and food service revenue. These contract liabilities are recorded in deferred student and other revenue on the Consolidated Balance Sheets. Revenue recognized related to contract liabilities in 2019 and 2018 was \$43.2 million and \$41.5 million, respectively.

Revenue Recognition - Contributions

In June 2018, FASB issued ASU No. 2018-08, *Not-for-Profit Entities (Topic 958), Clarifying the Scope and Accounting Guidance for Contributions Received and Contributions Made*. The FASB issued this ASU to reduce diversity in reporting by clarifying (1) whether transactions should be accounted for as contributions within the scope of Topic 958 or as exchange transactions subject to other guidance and (2) whether a contribution is conditional.

Commonwealth appropriation revenue is provided by the commonwealth to support the general operations of the University, which allows for a reduction in tuition rates for Pennsylvania resident students. The reduction in rates in 2019 and 2018 amounted to \$273.9 million and \$256.6 million, respectively. Funds are to be spent in accordance with applicable laws and revenue is recognized ratably over the fiscal year as the funds are expended.

Commonwealth construction grants are provided by the commonwealth to fund certain capital projects in support of the University's mission. This revenue is classified as with donor restrictions until the capital project is completed and placed in service, at such time the net assets are released from restrictions.

The University conducts sponsored program activity with various sponsors, including agencies and departments of the federal government, the commonwealth, local government entities, companies, and foundations. Sponsored activity in 2019 and 2018 was \$859.7 million and \$808.1 million, respectively, with approximately 66%

of the funding awarded through the National Institutes of Health. Most University sponsored activity is conducted on a cost-reimbursable basis with the University recognizing revenue as the related expenses have been incurred. Certain sponsors, however, provide funding in advance of related expenses, and such funding is recorded as advanced receipt of grant funds on the Consolidated Balance Sheets with revenue recognized as the related expenses are incurred. There is no assurance that sponsored awards will continue to be made at current levels.

The University initially records at fair value unconditional pledges (which are agreements with donors involving non-reciprocal transfers of cash or other assets) as net assets with donor restrictions or without donor restrictions depending on the nature of the donor-imposed restrictions. Contributions whose restrictions are met in the same fiscal year in which they are received are combined and reported with net assets without donor restrictions. Contributions receivable are discounted at a risk-adjusted rate commensurate with the donor's payment plan.

Conditional pledges of cash or other assets are recognized as contribution revenues and receivables when the conditions surrounding the pledge are substantially met.

Cash and Cash Equivalents and Operating Investments

Cash equivalents consist of operating investments with original maturities of 90 days or less. Operating investments include U.S. Treasury instruments and other high-quality, liquid securities that at the time of purchase are rated A3/P-1 or better by Moody's Investors Service or A-/A-1 or better by Standard & Poor's Ratings Services. Operating investments, together with cash, are utilized to fund the University's short-term operating needs and are invested with the expectation that such securities can be liquidated at their current value in a short time frame. Cash and cash equivalents that are part of endowment investments are shown therewith, as such funds are utilized for endowment purposes rather than University operating needs.

Foundation Assets

The University's foundation assets represent the Bradford Educational Foundation (BEF). The BEF is a 509(a)(3) Type III supporting organization whose sole purpose is to receive, administer, and distribute property for the benefit of the University of Pittsburgh Bradford campus. The BEF is governed by an independent board of directors, with the majority of members being non-University members. Although the University does not exercise control of the BEF, all assets held by the BEF are held for the financial benefit of the University. As such, the consolidated financial statements include the net assets and annual change in net assets of the BEF.

Endowment Investments

The University's endowment investments are reported at fair value. The fair value of direct University holdings in publicly traded securities and exchange traded funds are based upon quoted or published market prices. The fair value of all other investments, which consist of indirect holdings in both privately and publicly traded assets, is determined using net asset value (NAV) per share or unit of interest. Used as a practical expedient for the estimated fair value, NAV per share or its equivalent is provided by the fund manager and reviewed by the University. Indirect holdings of private assets primarily consist of University interests in funds investing in nonmarketable alternatives, real assets, and/or distressed securities, whereas indirect holdings of publicly traded assets primarily consist of University interests in marketable alternatives or other commingled funds. Nonmarketable alternatives are private equity or equity-like holdings, such as mezzanine and subordinated debt interests, in venture, buyout, or recapitalized companies or properties. Real assets are physical assets, or financial assets associated with such physical assets, whose income streams and/or fair values tend to rise with inflation; they include real estate, natural resources, commodities, and other hard assets. Marketable alternatives consist of absolute return-oriented strategies, distressed debt, long/short equity, and other hedging strategies. In the case of indirect holdings, changes in market conditions, economic environment, regulatory environment, currency exchange rates, interest rates, and commodity prices may significantly impact the NAV of the funds holding the investments and, consequently, the fair value of the University's interest in such funds and could materially affect the amounts reported in the consolidated financial statements. Although a secondary market exists for these investments, it is not active, and individual transactions are typically not observable. When transactions do occur in this limited secondary market, they may occur at

discounts to the reported NAV. It is therefore possible that if the University were to sell these investments in the secondary market, a buyer may require a discount to the reported NAV, and the discount could be significant. The University attempts to manage these risks through diversification, ongoing due diligence of fund managers, maintaining adequate liquidity, and continuously monitoring economic and market conditions.

Dividend income is recognized net of applicable withholding taxes on the ex-dividend date. Noncash dividends are recorded at the fair value of the securities received. Interest income and expenses are recorded net of management fees and applicable withholding taxes on the accrual basis of accounting.

Government Loan Funds

U.S. government student loans are recorded as liabilities because these funds are refundable to the federal government under certain conditions. Student loan funds donated by private groups, organizations, or individuals are recorded as net assets with donor restrictions since such funds operate on a revolving fund basis with principal and interest payments remaining in the fund for future lending.

Derivative Financial Instruments

The University records derivatives at fair value on the Consolidated Balance Sheets with changes in fair value reflected in the Consolidated Statements of Activities (see Note 9).

Split-Interest Agreements

These agreements with donors consist primarily of charitable gift annuities, pooled income funds, and irrevocable charitable remainder trusts for which the University serves as trustee. Assets are invested and payments are made to donors and/or other beneficiaries in accordance with the respective agreements. Endowment investments include \$31.2 million and \$24.1 million at June 30, 2019 and 2018, respectively, for the split-interest agreements. Other liabilities include \$15.6 million and \$12.9 million at June 30, 2019 and 2018, respectively, for the split-interest agreements.

The University maintains separate and distinct reserve funds adequate to meet future payments of all outstanding charitable gift annuities administered by the University. The University complies with applicable state annuity reserve requirements.

Property, Plant, and Equipment, Net

Property, plant, and equipment is recorded at cost, or if acquired by contribution, at fair value as of the date of the contribution. Depreciation is calculated using the straight-line method. Useful lives generally range from 15 to 40 years for buildings and improvements and 5 to 10 years for furnishings and equipment. As assets are retired, sold, or otherwise disposed, the cost and related accumulated depreciation are removed from the accounts, and gains or losses are recognized in the Consolidated Statements of Activities. Costs associated with the construction of new facilities and renovation and expansion of existing facilities are capitalized within construction in progress until such projects are placed in service. The University capitalizes software and certain implementation costs and generally depreciates such assets over 5 to 10 years.

Works of art, historical treasures, and similar assets include a variety of paintings, sculptures, photographs, antiques, and furnishings, as well as scholarly papers and archives. These assets are used for public exhibition, the preservation of artifacts and antiques for future generations, and scholarly research. Due to their nature, these assets are not depreciated. Library books, which include hard copy publications, periodicals, and electronic publications with rights to archival content, are depreciated over a period of 7 years. Maintenance and repairs are expensed as incurred.

Insurance Liabilities

The University is self-insured through an agreement with UPMC to provide medical coverage for its employees. A liability for estimated incurred but unreported claims of \$8.2 million and \$7.5 million has been recorded at June 30, 2019 and 2018, respectively, based upon management's analysis of claims history. This liability is reflected in accrued payroll and related liabilities on the Consolidated Balance Sheets.

The University is also self-insured for other activities, including workers' compensation, unemployment compensation, and certain litigation claims. Liabilities have been established for these programs generally based on third-party administrators' estimates using the University's historical loss experience. The self-insurance accrual is subject to periodic adjustment by the University based on actual loss experience factors. Liabilities for these other self-insured obligations aggregated \$6.0 million and \$9.3 million at June 30, 2019 and 2018, respectively, and are included in accrued payroll and related liabilities on the Consolidated Balance Sheets.

Recent Accounting Pronouncements

In March 2017, FASB issued the Accounting Standards Update (ASU) No. 2016-14, *Not-for-Profit Entities (NFP's) (Topic 958): Presentation of Financial Statements for Not-for-Profit Entities*. The ASU is effective in the current fiscal year and has been adopted in 2019 including the required reclassification of the 2018 activities. ASU 2016-14 reduces the number of net assets classes from three to two, increases disclosure regarding liquidity (Note 2), and requires expenses to be reported by their natural and functional classifications in one location (Note 13). With respect to the net asset classes, and as a result of the adoption of ASU 2016-14, as of June 30, 2018 previously reported unrestricted net assets (\$3.37 billion) were reduced by \$19.5 million and reclassified to without donor restrictions and temporarily restricted net assets (\$924.2 million) and permanently restricted net assets (\$766.1 million) were combined and increased by \$19.5 million and reclassified to with donor restrictions as of June 30, 2018. The change relates to the timing of release of the commonwealth construction grant revenue to align with when the constructed assets are placed into service.

In March 2017, FASB issued the ASU No. 2017-07, *Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*. This ASU requires presentation of the service cost component of the net periodic benefit cost within the same line item or items as other compensation costs arising from services rendered by relevant employees during the period, and presentation of the other cost components of net periodic benefit cost separately and outside of the change in net assets from operating activities. The ASU is effective in fiscal year 2020, but the University has elected early adoption in the current year and applied the expense reclassification retrospectively (see Note 10).

In May 2014, FASB issued ASU No. 2014-09, *Revenue from Contracts with Customers (Topic 606)* and in June 2018, FASB issued ASU No. 2018-08, *Not-for-Profit Entities (Topic 958), Clarifying the Scope and Accounting Guidance for Contributions Received and Contributions Made*. Both ASU's, and related amendments to ASU 2014-09, are effective for fiscal year 2019 and have been adopted in the current year. The University is using the modified retrospective approach for adopting Topic 606. The ASU had minimal impact on the recognition of University revenue. See Revenue Recognition – Contracts with Customers and Accounts Receivable; and Revenue Recognition – Contributions within this note for details.

In February 2016, FASB issued ASU No. 2016-02, *Leases (Topic 842)*. The ASU is effective for fiscal year 2020 and will require lessees to report most leases as assets and liabilities on the balance sheet, while lessor accounting will remain substantially unchanged. The ASU requires a modified retrospective transition approach for existing leases, whereby the new rules will be applied to the earliest year presented. The University is currently finalizing the implementation of this ASU (see Note 15 for the disclosure of lease commitments).

Tax-Exempt Status

The University is exempt from federal income tax under Section 501(c)(3) of the United States Internal Revenue Code. Accordingly, it is not subject to income taxes except to the extent it has taxable income from activities that are not related to its exempt purpose. The University annually reviews its tax positions and has determined that there are no material uncertain tax positions that require recognition in the consolidated financial statements. No provision for income taxes was required for 2019 or 2018.

The University's federal net operating loss carryforwards as of June 30, 2019 are approximately \$54.1 million and expire in years ranging from 2029 to 2037. Because management believes it is more likely than not that unrelated business activities will generate sufficient taxable income in the future in which all or part of these operating loss carryforwards will become deductible, a deferred tax benefit (included in inventories and deferred charges on the Consolidated Balance Sheets) of \$11.4 million was recognized as of June 30, 2019. Previously, a full valuation allowance was recorded.

Reclassifications

Certain 2018 operating expense line items include reclassifications related to the presentation of internal cost recovery to conform with the 2019 presentation. In addition, the 2018 student wellness fee was reclassified from sales and services, educational and other to net tuition and fees to conform with the 2019 presentation.

NOTE 2: LIQUIDITY AND AVAILABILITY OF FINANCIAL ASSETS

As of June 30, the following financial assets could be made available within one year of the balance sheet date to meet general expenditures:

	2019	2018
	<i>(in thousands of dollars)</i>	
Cash and cash equivalents	\$ 10,521	\$ 45,809
Operating investments	448,012	360,951
Accounts and notes receivable	266,984	229,576
Payout on designated endowment – financial aid	66,629	59,515
Payout on endowments - other	79,385	76,629
Financial assets available within one year	\$ 871,531	\$ 772,480

The University regularly monitors liquidity required to meet all general and capital expenditures, liabilities, and contractual obligations, while striving to maximize the investment of its available funds. For purposes of analyzing resources available to meet general operating needs over a twelve-month period, the University considers all expenditures related to its ongoing activities of teaching, research, and public service mission. This includes operating expenses, principal and interest payments on debt, and capital-related expenditures. Resources not available to meet general expenditures within one year may include those with external limitations imposed by donors, laws, or contracts or internal limitations imposed by management restrictions.

The University has various sources of liquidity including cash and cash equivalents, operating investments, and lines of credit. Operating investments consist of high-quality securities which are utilized to fund the University's short-term operating needs and are invested with the expectation that such securities can be liquidated at their current value in a short time frame.

Accounts and notes receivable consist of amounts due from students; sponsors of research, instruction, and public service initiatives; UPMC; the commonwealth; and

various other entities. All amounts are expected to be converted to cash within twelve months. Student loan receivables are not included as principal and interest on these loans are used solely to make new loans and are, therefore, not available to meet current operating needs.

The University maintains a management designated endowment fund, the payout from which is used to support student financial aid.

Payout on other endowments represents distributions on endowments which are expected to be available for use in the next twelve months. These funds are primarily available to the academic units in which the endowments were directed and are used to support scholarships, chairs and other initiatives.

To help manage unanticipated liquidity needs, the University has four general unsecured credit facilities aggregating \$100.0 million at June 30, 2019. No draws were made against the facilities during 2019. Termination dates on the lines of credit available at June 30, 2019 range from October 2019 to March 2020. It is management's intention to extend each credit facility.

NOTE 3: ACCOUNTS AND NOTES RECEIVABLE, NET

Accounts and notes receivable, net, at June 30 consists of the following:

	2019	2018
	<i>(in thousands of dollars)</i>	
Sponsored grant receivables, net	\$ 134,557	\$ 120,480
Commonwealth appropriation receivable	63,500	51,285
Hospitals and affiliated organizations receivables, net	33,278	18,202
Other receivables, net	16,320	14,148
Plant construction receivables due from commonwealth	11,833	17,491
Student receivables, net	7,496	7,970
Total accounts and notes receivable, net	\$ 266,984	\$ 229,576

NOTE 4: CONTRIBUTIONS RECEIVABLE, NET

Contributions receivable, net, at June 30 consists of the following:

	2019	2018
	<i>(in thousands of dollars)</i>	
Amounts due in:		
Less than one year	\$ 17,890	\$ 18,268
One to five years	32,026	34,905
Greater than five years	10,816	14,061
Gross contributions receivable	60,732	67,234
Less:		
Allowance for uncollectible pledges	(1,392)	(765)
Unamortized discounts	(3,677)	(6,308)
Total contributions receivable, net	\$ 55,663	\$ 60,161

At June 30, 2019 and 2018, the five largest outstanding pledge balances represented 55% and 61%, respectively, of the University's net contributions receivable.

The University has been named a beneficiary in the wills of numerous donors or has received conditional pledges

totaling \$283.5 million and \$271.8 million at June 30, 2019 and 2018, respectively. These bequests are considered intentions to give and do not fall within the definition of an unconditional pledge, and hence, are not recognized in the consolidated financial statements.

NOTE 5: ENDOWMENT AND OPERATING INVESTMENTS

Investments at June 30 consist of the following:

	2019	2018
	<i>(in thousands of dollars)</i>	
Endowment investments:		
Pooled	\$ 4,299,208	\$ 4,188,409
Nonpooled	43,355	37,921
Subtotal endowment investments	4,342,563	4,226,330
Operating investments <i>(Note 1)</i>	469,630	382,935
Total endowment and operating investments	\$ 4,812,193	\$ 4,609,265
Composition of endowment investments:		
Cash and cash equivalents	\$ 48,408	\$ 101,225
Domestic equities	678,766	674,604
International equities	883,225	844,240
U.S. government and government agencies' securities, bank acceptances and certificates, and commercial paper	235,709	249,614
Corporate bonds and other obligations	74,151	108,862
Alternative investment funds, partnerships, and exchange traded funds:		
Marketable alternatives	854,520	830,639
Nonmarketable alternatives	884,248	745,331
Real assets	683,536	671,815
Total endowment investments	\$ 4,342,563	\$ 4,226,330
Composition of operating investments:		
U.S. government and government agencies' securities, repurchase agreements, and commercial paper	\$ 260,809	\$ 210,301
Corporate bonds and other obligations	185,103	148,909
Other	23,718	23,725
Total operating investments	\$ 469,630	\$ 382,935

Unless precluded by size or donor restrictions, individual endowment fund assets are pooled and collectively managed on a unitized basis. Each endowment fund subscribes to or disposes of units in the pool using fair value per unit at the beginning of the month such subscription or disposition occurs to account for the transaction.

The philosophies and policies employed in the management of the endowment are long-term by definition, as they are based on the expectation that the endowment will continue to provide financial support to

the University in perpetuity. Accordingly, the University's investment policy is intended to optimize long-term total return — income plus capital appreciation — relative to the level of risk taken.

The University's investment policy contemplates the effects of its spending policy. The endowment spending policy balances the need for reliable and predictable earnings distributions to support current University activities with the desire to maintain the purchasing power of endowment assets so that they can continue providing financial support for future generations.

The following table summarizes the University's investments at June 30, 2019 and 2018, for which NAV was used as a practical expedient to estimate fair value:

Asset Class	Fair Value Determined Using NAV		Unfunded Commitments	Redemption	Redemption
	2019	2018	at June 30, 2019	Frequency	Notice Period
(in thousands of dollars)					
International equities	\$ 179,209	\$ 139,647	\$ -	30-90 days	30-120 days
Marketable alternatives:					
Redeemable within one year	654,700	711,582	-	30-365 days	30-180 days
Redeemable beyond one year	53,811	18,882	-	1-3 years	60-90 days
Nonredeemable	32,745	29,725	95,143	NA	NA
Total marketable alternatives	741,256	760,189	95,143		
Nonmarketable alternatives	884,248	745,331	668,849	NA	NA
Real assets:					
Redeemable	-	61,914	-	Daily	NA
Nonredeemable	657,914	585,947	439,305	NA	NA
Total real assets	657,914	647,861	439,305		
Total	\$ 2,462,627	\$ 2,293,028	\$ 1,203,297		

Descriptions follow for each asset class set forth in the table above:

International Equities

A portion of the University's investments in emerging market equities includes interests in two funds that hold publicly traded emerging market equities.

Marketable Alternatives

The University's investments in marketable alternatives are interests in commingled funds that hold various combinations of long and short positions predominantly in publicly traded equities, fixed income, and financial derivatives. Funds that are nonredeemable typically have investment periods of three or more years during which committed capital may be called and invested. The University's interests in the nonredeemable funds are considered to be illiquid in that they are not easily transferable and typically achieve liquidity over multi-year periods when and if the fund managers distribute proceeds realized from the underlying fund assets.

Nonmarketable Alternatives

The University's investments in nonmarketable alternatives are interests in commingled, private equity funds, including venture capital. These funds are invested

in equity and equity-like securities of mostly nonpublicly traded companies over investment periods of typically three to five years during which committed capital may be called and invested. The University's interests in private equity funds are considered to be illiquid in that they are not easily transferable and typically achieve liquidity over multi-year periods when and if the fund managers distribute proceeds realized from underlying fund assets.

Real Assets

The University's investments in real assets are interests in commingled funds that hold various combinations of publicly and nonpublicly traded physical assets (such as real estate, natural resources, commodities, and utilities), the financial assets and derivatives associated with such physical assets, and the equity and equity-like securities of companies engaged in physical asset ownership, operations and/or services. Funds that are nonredeemable typically have investment periods of three or more years during which committed capital may be called and invested. The University's interests in the nonredeemable funds are considered to be illiquid in that they are not easily transferable and typically achieve liquidity over multi-year periods when and if the fund managers distribute proceeds realized from the underlying fund assets.

NOTE 6: FAIR VALUE MEASUREMENTS

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The three levels of the fair value hierarchy are as follows:

- Level 1 – Unadjusted quoted or published prices in active markets for identical assets or liabilities that are available at the measurement date.
- Level 2 – Inputs other than quoted or published prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

- Level 3 – Unobservable inputs for the asset or liability that are used to measure fair value when observable inputs are not available. These inputs are developed based upon the best information available in such circumstances.

In the event that changes in the inputs used in the fair value measurement of an asset or liability result in a transfer of the fair value measurement into a different level, such transfers are recognized at the end of the reporting period.

The following tables summarize the inputs used in valuing the University's assets and liabilities carried at fair value, excluding investments stated at NAV as a practical expedient, at June 30, 2019 and 2018:

	2019			
	Level 1	Level 2	Level 3	Total
	<i>(in thousands of dollars)</i>			
Assets				
Cash and cash equivalents	\$ 9,485	\$ 1,036	\$ -	\$ 10,521
Endowment investments:				
Cash and cash equivalents	39,175	9,233	-	48,408
Domestic equities	678,766	-	-	678,766
International equities	696,058	5,417	2,541	704,016
U.S. government, corporate bonds, and other obligations	268,449	29,850	11,561	309,860
Marketable alternatives	23,270	89,994	-	113,264
Real assets	25,622	-	-	25,622
Subtotal endowment investments ⁽¹⁾	1,731,340	134,494	14,102	1,879,936
Operating investments:				
U.S. government, corporate bonds, and other obligations	378,037	67,875	-	445,912
Other	2,100	-	21,618	23,718
Endowed funds held by third parties	-	-	23,677	23,677
Total assets	\$ 2,120,962	\$ 203,405	\$ 59,397	\$ 2,383,764
Liabilities				
Interest rate swaps	\$ -	\$ 77,554	\$ -	\$ 77,554

	2018			
	Level 1	Level 2	Level 3	Total
	<i>(in thousands of dollars)</i>			
Assets				
Cash and cash equivalents	\$ 31,428	\$ 14,381	\$ -	\$ 45,809
Endowment investments:				
Cash and cash equivalents	80,475	20,750	-	101,225
Domestic equities	664,575	10,029	-	674,604
International equities	701,706	-	2,887	704,593
U.S. government, corporate bonds, and other obligations	288,141	59,585	10,750	358,476
Marketable alternatives	70,450	-	-	70,450
Real assets	23,954	-	-	23,954
Subtotal endowment investments ⁽¹⁾	1,829,301	90,364	13,637	1,933,302
Operating investments:				
U.S. government, corporate bonds, and other obligations	300,452	58,758	-	359,210
Other	1,741	-	21,984	23,725
Endowed funds held by third parties	-	-	23,591	23,591
Total assets	\$ 2,162,922	\$ 163,503	\$ 59,212	\$ 2,385,637
Liabilities				
Interest rate swaps	\$ -	\$ 56,789	\$ -	\$ 56,789

⁽¹⁾ The subtotals of endowment investments within the fair value tables above exclude investments of \$2,462,627 and \$2,293,028 as of June 30, 2019 and 2018, respectively, which are measured at NAV as a practical expedient and are not classified in the fair value hierarchy (see Note 5).

The following table summarizes the change in the Level 3 activity for the years ended June 30, 2019 and 2018:

	International Equities	U.S. Government Corporate and Other	Other Operating and Endowed Funds Held by Third Parties	Total
	<i>(in thousands of dollars)</i>			
Fair Value - June 30, 2017	\$ 4,301	\$ 9,348	\$ 41,657	\$ 55,306
Capital calls/purchases	-	1,175	3,366	4,541
Distributions/sales	(1,340)	-	(1,155)	(2,495)
Realized gains	144	-	-	144
Unrealized (losses) gains	(218)	227	1,707	1,716
Fair Value - June 30, 2018	\$ 2,887	\$ 10,750	\$ 45,575	\$ 59,212
Capital calls/purchases	-	1,300	1,070	2,370
Distributions/sales	(448)	(800)	(982)	(2,230)
Realized gains	107	65	-	172
Unrealized (losses) gains	(5)	246	(368)	(127)
Fair Value - June 30, 2019	\$ 2,541	\$ 11,561	\$ 45,295	\$ 59,397

Realized and unrealized gains (losses) for Level 3 activity are reported in other activities in the Consolidated Statements of Activities. An unrealized loss of

\$0.2 million and an unrealized gain of \$1.0 million were recognized related to these investments held at June 30, 2019 and 2018, respectively.

NOTE 7: PROPERTY, PLANT, AND EQUIPMENT, NET

Property, plant, and equipment, net, at June 30 is summarized below:

	2019	2018
	<i>(in thousands of dollars)</i>	
Land	\$ 75,658	\$ 63,849
Buildings and improvements	3,465,813	3,247,659
Equipment	804,690	783,323
Library books	308,705	297,372
Works of art, historical treasures, and similar assets	21,690	21,555
Construction in progress	151,790	185,442
Subtotal	4,828,346	4,599,200
Less: Accumulated depreciation	(2,898,427)	(2,765,071)
Total property, plant, and equipment, net	\$ 1,929,919	\$ 1,834,129

The amount capitalized in property, plant, and equipment related to expenditures funded by the commonwealth on behalf of the University totaled \$779.9 million and \$757.5 million at June 30, 2019 and 2018, respectively. The net book value of these items was \$330.1 million and \$333.9 million at June 30, 2019 and 2018, respectively.

The University has recognized a liability for conditional asset retirement obligations. The University performed an analysis of such obligations and determined that asbestos remediation costs represented the primary source of the liability. The University reviewed facilities on all campuses and estimated the timing, method, and cost of remediation. The resulting liability for conditional asset retirement obligations recognized at June 30, 2019 and 2018 was \$30.0 million and \$29.8 million, respectively.

NOTE 8: BONDS AND NOTES PAYABLE

Bonds and notes payable at June 30 are reported based upon outstanding principal and consists of the following:

	Range of Years Remaining to Maturity	2019 Effective Interest Rates	Outstanding Principal (in thousands of dollars)	
			2019	2018
Variable-rate bonds and notes:				
Series 2017-C1, taxable	12-20	2.03%-2.63%	\$ 55,000	\$ 55,000
Series 2017-C2, taxable	20-22	2.00%-2.58%	55,000	55,000
Series 2017-C3, taxable	13-18	2.08%-2.72%	50,000	50,000
Series 2014-B1/B2, tax-exempt	6-16	1.35%-1.90%	46,000	46,000
Series 2018 PANTHER™ Notes, due September 15, 2021		1.52%-2.54%	110,000	-
Total variable-rate bonds and notes			316,000	206,000
Fixed-rate bonds:				
Series 2017-A, taxable	3 mos.-17	1.43%-3.65%	434,900	477,500
Series 2017-B, taxable	3 mos.-11	1.41%-3.60%	102,335	103,335
Series 2014-A, tax-exempt	17-25	3.51%-3.65%	49,000	49,000
Noninterest-bearing promissory note			171	171
Total fixed-rate bonds			586,406	630,006
Unamortized net premium			1,274	1,335
Debt issuance costs			(3,993)	(3,921)
Total bonds and notes payable			\$ 899,687	\$ 833,420

The principal payments of bonds and notes payable for the next five years ending June 30 in millions of dollars are:

2020	\$ 42.6
2021	\$ 41.8
2022	\$ 151.2
2023	\$ 39.4
2024	\$ 40.8

The foregoing principal payments do not include \$206.0 million of variable-rate demand bonds (VRDBs) in commercial paper (CP) mode, all of which have final maturity dates between 2030 and 2041. These bonds bear short-term rates that are fixed over staggered periods of approximately 90 days each and are remarketed at the expiry of their respective rate periods.

Liquidity support for the \$206.0 million of outstanding VRDBs in CP mode is provided by the University. In the event that the University receives notice of an optional tender on its VRDBs in CP mode, the tendered bonds will be purchased with remarketing proceeds. If the remarketing proceeds are insufficient to purchase all tendered bonds, the University would have a current obligation to meet the shortfall. As an additional source of liquidity for this situation, the University entered into a \$40.0 million unsecured standby liquidity agreement with a financial institution that matures in June 2020. Since the University commenced providing self-liquidity in October 2009, there have been no failed remarketings.

On January 17, 2017, the University issued \$512.5 million fixed-rate Taxable University Refunding Bonds (Series 2017-A). The proceeds were used to fund an escrow account that was irrevocably placed with a trustee to meet the principal and interest payments of the Series 2000-A/B/C (\$124.4 million), Series 2002-A (\$20.0 million), and Series 2002-B (\$14.5 million) fixed-rate bonds until their first call date of September 15, 2019; Series 2009-A/B (\$290.3 million) fixed-rate bonds, which were called on March 15, 2019; and to redeem \$15.0 million tax-exempt Series 2002-B VRDBs in CP mode. The Series 2017-A bonds were issued at par.

On March 21, 2017, the University issued \$104.4 million fixed-rate Taxable University Refunding Bonds (Series 2017-B). The proceeds were used to fund an escrow account that was irrevocably placed with a trustee to meet the principal and interest payments of the Series 2005-A (\$35.0 million) and Series 2007-B (\$60.0 million) fixed-rate bonds until their respective first call date. The Series 2017-B bonds were issued at par.

On May 4, 2017, the University issued \$160.0 million in Taxable University Refunding Bonds (Series 2017-C); such bonds were issued as VRDBs in CP mode. The proceeds were used to redeem \$159.6 million tax-exempt Series 2005-A/B/C and Series 2007-B VRDBs at their CP maturity date.

In August 2018, the University issued its Pitt Asset Notes – Tax-Exempt Higher Education Registered Series of 2018 (Series 2018 PANTHERS™ Notes) in the amount of \$110.0 million to reimburse the University for prior capital and equipment expenditures. These three-year floating rate notes will mature on September 15, 2021.

Interest costs incurred in 2019 and 2018 were \$30.1 million and \$30.2 million, respectively. Included in these amounts are net swap payments and capitalized interest associated with various construction projects. Capitalized interest for 2019 and 2018 was \$0.9 million and \$0.5 million, respectively.

NOTE 9: DERIVATIVE AND OTHER FINANCIAL INSTRUMENTS

The University does not issue or trade derivative financial instruments except as described herein. University financial assets are invested on its behalf with various investment managers, some of whom are authorized to employ derivative instruments, including swaps, futures, forwards, and options. These derivatives are generally used for managing interest rate or foreign currency risk or to attain or hedge a specific financial market position. Additionally, the University has entered into various interest rate swap agreements to hedge its interest rate risk associated with certain debt obligations.

The University may be exposed to financial loss should a derivative counterparty fail to perform pursuant to the instrument. Counterparties are typically financial institutions or exchanges. Counterparty risks are mitigated by using creditworthy counterparties, settling positions periodically, and requiring collateral to be posted at predetermined levels of exposure.

Not including University derivative instruments held by various alternative investment funds, the University invested in futures contracts with gross notional values of \$92.2 million and \$59.8 million at June 30, 2019 and 2018, respectively. When the University uses futures to replicate an investment position, it posts the required collateral. Futures contracts are marked-to-market daily based on settlement prices established by the board of trade or exchange on which they are traded. Gains and losses are realized when the contracts expire or are closed. There were unrealized gains of \$1.5 million and unrealized losses of \$0.7 million on these future contracts at June 30, 2019 and June 30, 2018, respectively.

The University liabilities arising from variable-to-fixed interest rate swap agreements associated with certain University debt obligations had an aggregated fair value of \$77.6 million and \$56.8 million at June 30, 2019 and 2018, respectively, and are included in other liabilities on the Consolidated Balance Sheets (see also Note 6). The fair value represents the estimated amount the University would be required to pay to terminate these agreements as of the respective fiscal year-end. The University recorded in the Consolidated Statements of Activities an unrealized loss of \$20.8 million in 2019 and an unrealized gain of \$20.5 million in 2018, due to changes in fair value of the swaps.

The aggregate notional amount of the swap agreements associated with University debt was \$320.3 million and \$335.3 million at June 30, 2019 and 2018, respectively. These swaps were entered into for the sole purpose of hedging interest payable on certain University VRDBs. The variable interest rates received by the University under the swap agreements are either 67% or 70% of one- or three-month London Interbank Offered Rates (LIBOR), while the fixed rates paid by the University range from 3.25% to 5.14%. Net swap payments made or received by the University are reported in interest expense in the Consolidated Statements of Activities. No collateral was called or posted during 2019 or 2018 with respect to these swap agreements. Furthermore, the University does not anticipate posting collateral pursuant to these swap agreements since there are no collateral thresholds applicable to the University given the University's current credit ratings.

NOTE 10: PENSION AND POSTRETIREMENT OBLIGATIONS

Pension

The University provides retirement benefits under contributory or noncontributory plans to substantially all employees. The University's contributory plan provides for participant directed investment in certain investments managed by the Teachers Insurance and Annuity Association (TIAA) and College Retirement Equities Fund (CREF) and in certain investment funds of the Vanguard Group. The plan requires three years of service for vesting of the University contribution. Employees hired before January 1, 1995 were immediately vested. University contributions to this plan in 2019 and 2018 were \$86.3 million and \$82.5 million, respectively.

The noncontributory plan is a defined-benefit pension plan that covers employees who do not participate in the contributory plan. The plan was amended to freeze new entrants effective November 3, 2015. The plan provides for vesting after five years with pension benefits accruing at 2.1% of base salary or the Social Security wage base, whichever is lower. Pension benefits are payable upon normal retirement at age 65 or early retirement at age 55, in accordance with the conditions and pension eligibility criteria described in the plan. University contributions to this plan in 2019 and 2018 were \$4.9 million and \$6.7 million, respectively.

Postretirement

The University also provides postretirement medical and life insurance benefits to eligible employees and their spouses upon retirement through a contributory benefit plan.

Though funding is not required, the University has elected to fund its postretirement liability via a Board designated endowment fund, which is managed within the University's pooled endowment investments (see Notes 5 and 12). The fair value of this fund at June 30, 2019 and 2018 was \$479.5 million and \$455.0 million, respectively, and is included in endowment investments on the Consolidated Balance Sheets. Although the University has established this endowment for the postretirement plan, payments to beneficiaries of this plan are currently made through non-endowed operating funds.

Under the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, the federal government provides a subsidy to employers equal to 28% of the employer's qualifying prescription drug costs for retirees if the plan offered by the employer is at least actuarially equivalent to Medicare Part D. The University is qualified for and receives the subsidy via a reduction in premiums charged by its provider.

The University uses a measurement date of June 30 for plan assets and the benefit obligations. Information related to the benefit obligation, assets, and funded status of the defined-benefit pension plan and the postretirement benefit plan as of and for the years ended June 30, 2019 and 2018 is summarized in the table below:

	Defined-Benefit Plan		Postretirement Plan	
	2019	2018	2019	2018
	<i>(in thousands of dollars)</i>			
Service cost	\$ 7,151	\$ 8,089	\$ 19,099	\$ 19,224
Other components of net periodic benefit cost:				
Interest cost	\$ 6,950	\$ 6,069	\$ 22,179	\$ 20,237
Expected return on plan assets	(10,480)	(9,393)	-	-
Actuarial loss	1,287	1,887	2,305	3,637
Total	\$ (2,243)	\$ (1,437)	\$ 24,484	\$ 23,874
Funded status:				
Benefit obligation at beginning of year	\$ 164,979	\$ 156,877	\$ 531,620	\$ 528,040
Service cost	7,151	8,089	19,099	19,224
Interest cost	6,950	6,069	22,179	20,237
Actuarial loss (gains)	24,610	(4,783)	24,170	(19,003)
Benefits paid	(1,499)	(1,273)	(18,034)	(16,878)
Benefit obligation at end of year	\$ 202,191	\$ 164,979	\$ 579,034	\$ 531,620
Fair value of plan assets at beginning of year	\$ 146,011	\$ 130,831		
Actual return on plan assets	8,961	9,801		
Actual plan contributions	4,907	6,652		
Benefits paid	(1,499)	(1,273)		
Fair value of plan assets at end of year	\$ 158,380	\$ 146,011		
Funded status – liability recognized on Consolidated Balance Sheets:				
Pension and postretirement obligations	\$ (43,811)	\$ (18,968)	\$ (579,034)	\$ (531,620)
Accumulated benefit obligation	\$ 193,323	\$ 157,471		
Estimated 2020 employer contribution to the defined-benefit plan:				
<i>(in thousands of dollars)</i>		<u>\$ 6,728</u>		

	Defined-Benefit Plan		Postretirement Plan	
	2019	2018	2019	2018
Weighted-average assumptions used to determine the benefit obligation (liability) at June 30:				
Discount rate	3.8%	4.25%	3.7%	4.25%
Rate of compensation increase	3.0%	3.0%	-	-
Assumed health care trend cost:				
Initial trend – pre-age 65 retirees	-	-	6.75%	7.0%
Initial trend – post-age 65 retirees	-	-	6.0%	6.0%
Ultimate trend	-	-	4.5%	4.5%
Year to reach ultimate	-	-	2029	2026

Weighted-average assumptions used to determine the net periodic cost (expense) for the years ended June 30:				
Discount rate	4.25%	3.9%	4.25%	3.9%
Rate of compensation increase	3.0%	3.0%	-	-
Expected long-term return on plan assets	7.25%	7.25%	-	-
Assumed health care trend cost:				
Initial trend – pre-age 65 retirees	-	-	7.0%	7.0%
Initial trend – post-age 65 retirees	-	-	6.0%	7.0%
Ultimate trend	-	-	4.5%	4.5%
Year to reach ultimate	-	-	2026	2025

	Defined-Benefit Plan	Postretirement Plan
Estimated future benefit payments:		
	<i>(in thousands of dollars)</i>	
2020	\$ 4,452	\$ 18,369
2021	\$ 4,829	\$ 21,340
2022	\$ 5,226	\$ 22,846
2023	\$ 5,703	\$ 24,513
2024	\$ 6,152	\$ 26,019
2025 – 2029	\$ 38,260	\$ 153,856

A one-percentage point change in assumed health care cost trend rates would have the following effects on the postretirement plan:

	Increase		Decrease	
	(in millions of dollars)			
	Revised Amount	Percent Change	Revised Amount	Percent Change
Service and interest cost				
(medical component only)	\$ 39.3	2.2%	\$ 37.6	2.3%
Total periodic benefit cost	\$ 45.3	3.9%	\$ 41.7	4.3%
Benefit obligation for health care benefits	\$ 546.1	3.1%	\$ 510.6	3.6%
Total benefit obligation	\$ 595.2	2.8%	\$ 559.9	3.3%

Pension Assets

Assets related to the University's defined-benefit pension plan are segregated in a trust managed by a third-party investment manager. The fair value of these assets at June 30, 2019 and 2018 was \$158.4 million and \$146.0 million, respectively. The fund is invested through common collective trust funds in domestic and international equities and fixed-income securities using the S&P 500 Index as a benchmark for domestic equities, the MSCI EAFE Index for international equities, and the Barclays Intermediate Government/Credit Bond Index for the fixed-income securities. Common collective trust funds are similar to mutual funds; however, they are generally not registered with the U.S. Securities and Exchange Commission and participation is not open to the public but limited to institutional investors. The specific investment objective is to meet or exceed the investment policy benchmark over the long term. Plan investment valuations are determined using NAV per share available at the measurement date, as published by the fund manager. The plan has no unfunded commitments. Pension plan assets are Level 1 in the fair value hierarchy.

The long-term investment strategy for pension plan assets is to meet present and future benefit obligations to all participants and beneficiaries; cover reasonable expenses incurred to provide such benefits, including expenses incurred in the administration of the trust and the plan; provide sufficient liquidity to meet benefit and expense payment requirements on a timely basis; and provide a total return that, over the long term, maximizes the ratio of trust assets to liabilities by maximizing investment return, at an appropriate level of risk. The expected return on plan assets is based on a weighted average of the individual expected return for each asset category in the plan's portfolio. Expected return comprises inflation plus the real rate of return for each asset class.

Over the long term, asset allocation is believed to be the single greatest determinant of risk and return. Asset allocation will deviate from the target percentages due to market movement, cash flows, and investment manager performance. Material deviations from the asset allocation target can alter the expected return and risk of the trust. However, frequent rebalancing to the asset allocation targets may result in significant transaction costs, which can impair the trust's ability to meet its investment objective.

The target allocation for both fiscal years and the fair value of the University's pension plan assets at June 30, by asset category, were as follows:

Asset class:	Target Allocation	2019	2018
		<i>(in thousands of dollars)</i>	
Equity securities:			
Stock index and small cap	35%	\$ 55,096	\$ 50,326
International	35%	55,525	51,049
Debt securities	30%	47,475	44,136
Cash and cash equivalents	-	284	500
Total pension plan assets		\$ 158,380	\$ 146,011

NOTE 11: NET ASSETS

Net assets at June 30 consist of the following:

	2019		
	Without Donor Restrictions	With Donor Restrictions	Total
	<i>(in thousands of dollars)</i>		
Endowments – instruction and academic support	\$ -	\$ 1,084,845	\$ 1,084,845
Endowments – financial aid	-	374,395	374,395
Endowments – other	-	204,226	204,226
Endowment designated for financial aid	1,704,446	-	1,704,446
Endowment designated for postretirement benefits	479,494	-	479,494
Endowments designated for schools and other	468,429	-	468,429
Total endowment net assets	2,652,369	1,663,466	4,315,835
Net invested in plant and other	763,467	-	763,467
Pledges, loan funds, and other	-	89,458	89,458
Total net assets	\$ 3,415,836	\$ 1,752,924	\$ 5,168,760

	2018		
	Without Donor Restrictions	With Donor Restrictions	Total
	<i>(in thousands of dollars)</i>		
Endowments – instruction and academic support	\$ -	\$ 1,047,947	\$ 1,047,947
Endowments – financial aid	-	363,959	363,959
Endowments – other	-	195,854	195,854
Endowment designated for financial aid	1,683,220	-	1,683,220
Endowment designated for postretirement benefits	454,963	-	454,963
Endowments designated for schools and other	479,361	-	479,361
Total endowment net assets	2,617,544	1,607,760	4,225,304
Net invested in plant and other	729,390	-	729,390
Pledges, loan funds, and other	-	102,100	102,100
Total net assets	\$ 3,346,934	\$ 1,709,860	\$ 5,056,794

Endowments with donor restrictions require the original corpus be maintained in perpetuity. The distributions generated by these funds may be either expended or reinvested in the endowment, in accordance with donor restrictions and the endowment contribution and spending policy (see Note 12). Expendable funds are made available for the schools to use for instruction, academic support, scholarships, fellowships, chairs and other academic initiatives in accordance with donor wishes and University policy. The principal of endowment funds with donor restrictions was \$771.8 million and \$738.4 million as of June 30, 2019 and 2018, respectively. Pledges, loan funds, and other includes endowed and non-endowed pledges and student loan funds restricted by donors.

The endowment designated for financial aid was established exclusively to provide financial aid to students. During 2019 and 2018, the endowment distributed \$66.6 million and \$59.5 million, respectively (Note 2).

The endowment designated for postretirement benefits was established by the Board of Trustees to support the University's postretirement health and life insurance

benefits for employees. Distributions from this endowment totaled \$18.3 million and \$16.9 million in 2019 and 2018, respectively, and were returned to principal. Postretirement liabilities of \$579.0 million as of June 30, 2019 and \$531.6 million as of June 30, 2018 are reported in pension and postretirement liabilities on the Consolidated Balance Sheets.

Endowments designated for schools and other include both Board and management designated endowments. Endowments designated to the schools support scholarships, fellowships, chairs, and other academic initiatives. Endowments designated by management support self-insurance liabilities and other general purposes. Cash not yet invested in the consolidated endowment pool as of June 30 is included in endowments designated for schools and other.

Invested in plant and other primarily includes the value of University property net of debt and other capital-related liabilities. Other capital-related liabilities include the valuation of the University's interest rate swap agreements and the conditional asset retirement obligation (see Note 7).

NOTE 12: ENDOWMENT NET ASSETS

The commonwealth has not adopted The Uniform Prudent Management of Institutional Funds Act of 2006 (UPMIFA) and, instead, enacted in December 1998 Pennsylvania Act 141 (codified as Title 15 of the Pennsylvania Consolidated Statutes §5548(c) and referred to herein as Title 15) to govern the investment of restricted funds held in trust by Pennsylvania nonprofit corporations. Title 15 permits Pennsylvania nonprofit corporations to elect a total return approach for determining income distributions from restricted funds held in trust, whereby income is defined as a stipulated percentage of the value of the assets held; the stipulated percentage must be determined at least annually and may be no less than 2% nor more than 7%, and the value of the assets held must be averaged over a period of three or more preceding years. A resolution to elect a total return approach for determining endowment income distributions for the University's consolidated investment pool was passed by the University's Board of Trustees on

October 21, 1999. The University's endowment income distribution is determined annually using a stipulated percentage of 4.25% of the endowment's three-year average fair value, provided that such distribution is not less than the amount distributed in the previous year.

Employing the total return approach, the University records the original value of an endowed contribution as net assets with donor restrictions, along with any endowment income distributions that are reinvested in the endowment. Non-endowed funds that lack third-party donor restrictions but function as endowments (designated endowments) are classified as net assets without donor restrictions. Gains and losses attributable to donor-restricted endowed funds and designated endowment funds are recorded as net assets with donor restrictions and without donor restrictions, respectively.

The change in endowment net assets for the years ended June 30, 2019 and 2018 was as follows:

	Without Donor Restrictions	With Donor Restrictions	Total
	<i>(in thousands of dollars)</i>		
Endowment net assets – June 30, 2017	\$ 2,439,453	\$ 1,515,088	\$ 3,954,541
Endowment return:			
Endowment earnings	15,285	1,495	16,780
Gains	262,111	64,054	326,165
Total endowment return	277,396	65,549	342,945
Contributions	270	27,123	27,393
Distributions for operations	(136,144)	-	(136,144)
Net transfers	36,569	-	36,569
Endowment net assets – June 30, 2018	2,617,544	1,607,760	4,225,304
Endowment return:			
Endowment earnings	15,603	1,657	17,260
Gains	165,017	22,559	187,576
Total endowment return	180,620	24,216	204,836
Contributions	136	31,490	31,626
Distributions for operations	(146,014)	-	(146,014)
Net transfers	83	-	83
Endowment net assets – June 30, 2019	\$ 2,652,369	\$ 1,663,466	\$ 4,315,835

Approximately 99% of the University's endowment funds are collectively managed in a broadly diversified pool of assets called the consolidated investment pool. The Investment Committee of the Board of Trustees provides

general oversight, policy guidance, and performance review of the consolidated investment pool and approves asset allocation and spending policies.

NOTE 13: FUNCTIONAL EXPENSES

The University accounts for expenses according to major classes of program services or functions. Functional expenses for the years ended June 30 consist of the following:

	2019					
	Program Services				Support Services	Total
	Academics	Research and Related	Student Services	Auxiliary Enterprises		
	<i>(in thousands of dollars)</i>					
Salaries and wages	\$ 495,462	\$ 373,335	\$ 76,385	\$ 20,881	\$ 88,983	\$ 1,055,046
Fringe benefits	136,459	105,269	24,981	7,359	26,023	300,091
Total compensation	631,921	478,604	101,366	28,240	115,006	1,355,137
Supplies	33,995	71,021	9,109	2,750	5,794	122,669
Business and professional	60,505	187,642	40,909	45,106	40,141	374,303
Facilities	45,541	22,463	8,526	19,608	7,219	103,357
Depreciation	79,570	46,784	16,793	26,445	15,243	184,835
Interest	12,032	7,126	2,535	6,067	2,377	30,137
Rent	19,110	26,451	2,851	1,104	2,991	52,507
Other	1,570	19,157	4,421	23,340	(6,187)	42,301
Total operating expenses	884,244	859,248	186,510	152,660	182,584	2,265,246
Other components of net periodic benefit cost	10,445	7,871	1,610	440	1,875	22,241
Total	\$ 894,689	\$ 867,119	\$ 188,120	\$ 153,100	\$ 184,459	\$ 2,287,487

	2018					
	Program Services				Support Services	Total
	Academics	Research and Related	Student Services	Auxiliary Enterprises		
	<i>(in thousands of dollars)</i>					
Salaries and wages	\$ 483,087	\$ 350,628	\$ 70,194	\$ 18,926	\$ 82,239	\$ 1,005,074
Fringe benefits	133,217	98,486	22,966	6,739	24,822	286,230
Total compensation	616,304	449,114	93,160	25,665	107,061	1,291,304
Supplies	31,156	66,594	7,294	1,945	5,043	112,032
Business and professional	61,109	179,210	38,298	41,491	30,299	350,407
Facilities	43,879	21,808	7,193	17,789	4,436	95,105
Depreciation	77,438	44,260	15,178	26,454	13,880	177,210
Interest	11,998	6,914	2,346	6,614	2,299	30,171
Rent	18,497	26,821	2,542	13	2,210	50,083
Other	4,060	15,978	6,321	23,740	(3,187)	46,912
Total operating expenses	864,441	810,699	172,332	143,711	162,041	2,153,224
Other components of net periodic benefit cost	10,785	7,829	1,566	422	1,835	22,437
Total	\$ 875,226	\$ 818,528	\$ 173,898	\$ 144,133	\$ 163,876	\$ 2,175,661

Costs related to the operation and maintenance of property, including depreciation of property and equipment and interest on related debt, are allocated to program services and support services based upon salary effort.

Academics includes instructional, academic support, and library costs. Research and related includes sponsored programs related to research and development as well as public service activity such as clinical trials. Student

services represents expenses supporting the well-being and development of students outside of direct instruction. Student admissions, registration, counseling, and advising, as well as intercollegiate athletics are included in student services. Auxiliary enterprises consists of costs to provide services to students, faculty, and staff, such as student housing, meal plans, parking, and book store activity. Support services consists of institution-wide functions in support of the University's academic, research, and public service mission.

NOTE 14: RELATED PARTIES

The University has relationships and affiliation agreements with separately incorporated entities including UPMC and affiliated hospitals and UPP. These relationships include a common paymaster arrangement for certain University School of Medicine (SOM) faculty with academic and clinical responsibilities; contractual

obligations for UPMC and UPP to support certain educational and research functions at the University; and property rental agreements. There is no guarantee these agreements will be renewed in future periods. Transactions with all related entities are conducted in the ordinary course of business and are discussed below.

The following summarizes the significant related party transactions between the University and UPMC for the years ended June 30, 2019 and 2018:

Service Agreement	Location on the Consolidated Financial Statements	2019	2018
<i>(in thousands of dollars)</i>			
Common paymaster arrangement ^(a)	Net on balance sheet	\$ 119,196	\$ 113,878
Facilities-related services, mail, telephone, printing, and other services ^(a)	Net on balance sheet	16,491	15,249
Net balance sheet transactions with UPMC		\$ 135,687	\$ 129,127
UPMC dean's tax, Children's Hospital of Pittsburgh, and other academic support ^(b)	Sales and services, educational and other	\$ 104,178	\$ 84,642
UPMC academic affiliation agreement ^(c)	Sales and services, educational and other	31,000	30,500
UPMC Hillman Cancer Center research support payments ^(d)	Sales and services, educational and other	17,237	10,039
Rental revenue ^(e)	Rental revenue	10,209	10,226
Cost sharing for Medical and Health Sciences Foundation ^(f)	Sales and services, educational and other	3,657	3,644
UPMC Enterprises	Contributions for operations	2,250	-
Institute for Personalized Medicine	Sales and services, educational and other	1,880	1,946
Revenues from UPMC		\$ 170,411	\$ 140,997
Health insurance coverage for University employees ^(g)	Fringe benefits	\$ 130,608	\$ 124,970
WPIC and UPMC Hillman Cancer Center research services ^(h)	Primarily compensation	27,007	26,258
Rental expense paid to UPMC ^(e)	Rent	23,999	23,332
Expenses paid to UPMC		\$ 181,614	\$ 174,560

- (a) Certain University SOM faculty and staff provide clinical services through their University appointments to UPMC, UPP, and affiliated hospitals. The University invoices these entities monthly for reimbursement of the clinical portion of the associated compensation costs. SOM faculty members, having both a University academic appointment and a separate, external appointment for clinical responsibilities, participate in the common paymaster arrangement for purposes of determining appropriate FICA taxation. In addition to the reimbursable compensation costs, the University also engages in other transactions with these entities, which include providing certain facilities-related services, telephone, mailing, printing, and various other services, which are reimbursed at cost.

- (b) UPMC provides support to the SOM for the school's general academic mission, research, new programs, and faculty recruitment; and to augment operating budgets for certain departments that do not generate sufficient revenues to meet their academic and research costs. Additionally, UPMC provides financial support to the SOM through the Children's Hospital of Pittsburgh of UPMC (CHP), which supports pediatric research programs.
- (c) The University signed an agreement with UPMC that included financial commitments designed to further the two entities' commitment to their interrelated teaching, research, clinical care, and community service missions. As part of the agreement, UPMC provides annual funding for the SOM.
- (d) UPMC provides support payments to the UPMC Hillman Cancer Center (UHCC) for various subsidies, research initiatives, and general support.
- (e) The University is involved in certain rental arrangements in which the University acts as both lessor or lessee with UPMC and its affiliates.
- (f) In 2003, the University and UPMC created the Medical and Health Sciences Foundation (MHSF), a separate 501(c)(3) organization. The MHSF serves as a unified fundraising organization for the University's schools of the health sciences and UPMC. The arrangement calls for the cost of MHSF to be split between the University and UPMC.
- (g) UPMC serves as the provider of health insurance coverage to all eligible University employees who enroll in the plan. The University is self-insured for these costs and reimburses UPMC for actual claims cost.
- (h) The University has an arrangement with UPMC whereby certain research-related costs incurred by UPMC (primarily staff compensation) in relation to WPIC and UHCC research awards are charged to such awards via an electronic billing and reimbursed to UPMC each month.

A lease arrangement exists between the University and the commonwealth for WPIC. Since 1949, the University has managed WPIC under an agreement between the University and the commonwealth whereby the University rents for a consideration of \$1 per year the land, building, equipment, and other items that are used by WPIC. The agreement provides for continuing terms of 10 years each; however, this agreement is cancelable by either party on one year's written notice. In 1992, the University subleased to UPMC the land, building,

equipment, and other items subject to the current lease arrangement between the commonwealth and the University. This sublease arrangement continued to be in effect during 2019 and 2018. Included in property, plant, and equipment is \$181.4 million and \$193.2 million at June 30, 2019 and 2018, respectively, related to the land, buildings, and equipment used by WPIC. Accumulated depreciation related to these assets totaled \$156.9 million and \$167.6 million at June 30, 2019 and 2018, respectively.

NOTE 15: COMMITMENTS AND CONTINGENCIES

At June 30, 2019 and 2018, the University had outstanding contractual commitments of \$141.8 million and \$66.1 million, respectively, for property, plant, and equipment expenditures.

The University engages in various leasing activities as both a lessor and lessee. Rental revenue from operating leases was \$18.3 million and \$18.4 million in 2019 and 2018, respectively. Rental expense for operating leases was \$52.5 million in 2019 and \$50.1 million in 2018. Minimum future rental revenue and expense under operating leases that have initial or remaining noncancelable lease terms or expected variable lease commitments for the years ended June 30 are as follows:

	Rental Revenue	Rental Expense
	<i>(in thousands of dollars)</i>	
2020	\$ 16,873	\$ 54,391
2021	\$ 16,140	\$ 43,378
2022	\$ 13,312	\$ 37,678
2023	\$ 11,523	\$ 32,291
2024	\$ 9,721	\$ 30,054
Thereafter	\$ 7,617	\$ 136,868

The University classifies certain lease transactions as capital leases. As of June 30, 2019 and 2018, assets recorded under capital leases were \$42.6 million and \$18.1 million, respectively, and accumulated depreciation recorded under capital leases was \$13.7 million and \$11.2 million, respectively. During 2019, the University acquired property and equipment under capital leases totaling \$24.5 million. There was no property or equipment acquired under capital leases in 2018. As of June 30, 2019 and 2018, capital lease obligations included in other liabilities on the Consolidated Balance Sheets were \$29.6 million and \$6.7 million, respectively. Future minimum lease payments under non-cancellable capital leases in thousands of dollars for the years ended June 30 are as follows:

2020	\$ 3,005
2021	2,861
2022	2,884
2023	2,908
2024	2,975
Thereafter	29,371
Total payments	44,004
Less: interest	(14,419)
Total	\$ 29,585

In May 2019, the University entered into a transaction with a third-party developer and its affiliates to develop a mixed-use facility consisting of commercial, laboratory, parking, and office space at 5051 Centre Avenue in Pittsburgh. The transaction calls for the University to lease portions of the property to the developer with the University leasing back a portion of the space for research and academic purposes once the development is completed in a few years. The transaction will be accounted for in accordance with ASU No. 2016-02, *Leases*, once the new accounting standard is adopted in 2020 (see Note 1 – Recent Accounting Pronouncements).

The University is a defendant in a number of legal actions seeking damages and other relief from the University. While the final outcome of each action cannot be determined at this time, legal counsel and University management are of the opinion that the liability, if any, in these legal actions will not have a material adverse effect on the University's consolidated financial statements.

The University receives significant financial assistance from the federal government including the sponsorship of federal research projects. Research grants and contracts normally provide for the recovery of direct and indirect costs. Recovery of indirect costs is recorded at predetermined rates negotiated with the federal government. Indirect cost recovery rates from nonfederal sources may vary. Entitlement to these resources for the recovery of the applicable direct and related indirect costs is generally conditioned upon compliance with the terms and conditions of the grant or contract agreements and applicable federal regulations, including the expenditure of the resources for eligible purposes. Substantially all grants and contracts, and the University's indirect cost rate, are subject to financial and compliance reviews and audits by the grantors. Funds received through federal sources are subject to audit each year in accordance with the Office of Management and Budget's Uniform Guidance. In management's opinion, the likelihood of a material adverse outcome on the University's financial position from those reviews and audits is remote.

As part of ongoing operations, the University enters into utility contracts to secure electric and natural gas rates. These contracts are with various utility suppliers and some of the contracts cover multiple years. The University monitors the energy markets on an ongoing basis and will make commitments on new rates if deemed in the best interest of the University.

The University conducts a review of contracts and agreements that may contain guarantees, including loan guarantees such as standby letters of credit and indemnifications. In certain contracts, the University agrees to indemnify a third-party service provider under certain circumstances. Pursuant to its bylaws, the University provides indemnification to directors, officers,

and, in some cases, employees and agents against certain liabilities incurred as a result of service provided on behalf of or at the request of the University. The terms of indemnity vary from agreement to agreement, and the amount of indemnification, if any, cannot be reasonably determined.

NOTE 16: SUBSEQUENT EVENTS

The University has evaluated subsequent events through October 16, 2019, the date on which the consolidated financial statements were issued and determined that

there were no subsequent events requiring additional disclosure or adjustment to the consolidated financial statements.

MEMBERSHIP OF THE BOARD OF TRUSTEES FISCAL YEAR 2019

MEMBERS EX OFFICIO (NONVOTING) Tom W. Wolf, Governor of the Commonwealth of Pennsylvania Pedro A. Rivera, Secretary of Education of the Commonwealth of Pennsylvania Rich Fitzgerald, Allegheny County Executive William Peduto, Mayor of the City of Pittsburgh	2018 – 2022 Mary Ellen Callahan Vaughn S. Clagette James P. Covert Keith E. Schaefer 2019 – 2023 Douglas M. Browning Louis R. Cestello David C. Chavern Deborah J. Gillotti	ALUMNI TRUSTEES 2016 – 2020 S. Jeffrey Kondis Jack D. Smith 2017 – 2021 Larry J. Merlo 2018 – 2022 Jane Bilewicz Allred Gary T. Brownlee 2019 – 2023 Michael G. Wells	EMERITUS TRUSTEES J. David Barnes Steven C. Beering Thomas G. Bigley Suzanne W. Broadhurst John G. Conomikes George A. Davidson Jr. Catherine D. DeAngelis Herbert P. Douglas Jr. D. Michael Fisher E. Jeanne Gleason J. Roger Glunt Earl F. Hord Paul E. Lego George L. Miles Jr. Frank E. Mosier Alfred L. Moyé Thomas H. O'Brien Anthony J.F. O'Reilly Robert A. Paul James C. Roddey Farrell Rubenstein Richard P. Simmons Charles M. Steiner John A. Swanson Burton M. Tansky Dick Thornburgh Thomas J. Usher
MEMBER EX OFFICIO (VOTING) Patrick Gallagher, Chancellor and Chief Executive Officer	SPECIAL TRUSTEES 2016 – 2020 Robert M. Hernandez Marlee S. Myers Shawndya L. Simpson Vacant 2017 – 2021 SaLisa L. Berrien Tamara M. Haddad Adam C. Walker Vacant 2018 – 2022 Sundaa Bridgett-Jones Wen-Ta Chiu David J. Morehouse Marna Cupp Whittington 2019 – 2023 Robert O. Agbede G. Nicholas Beckwith III Emil Spadafore A. David Tilstone	COMMONWEALTH TRUSTEES <i>G: Governor appointment</i> <i>H: House appointment</i> <i>S: Senate appointment</i> 2015 – 2019 Jake Wheatley Jr. (G) Herbert S. Shear (H) Peter C. Varischetti (S) 2016 – 2020 Bradley J. Franc (G) Thomas O. Johnson II (H) Jay Costa Jr. (S) 2017 – 2021 Sy Holzer (G) Thomas VanKirk (H) William K. Lieberman (S) 2018 – 2022 Vacant (G) John A. Maher III (H) John J. Verbanac (S)	
TERM TRUSTEES 2016 – 2020 John A. Barbour Eva Tansky Blum Edward J. Grefenstette Patricia D. Horoho John H. Pelusi Jr. 2017 – 2021 Ira J. Gumberg Dawne S. Hickton Roberta A. Luxbacher Thomas E. Richards			

The consolidated financial statements have been reviewed and approved by the University's Audit Committee. The Audit Committee is comprised of outside directors having requisite financial expertise and meets regularly with University management and both internal and external auditors to review internal accounting controls, audit issues, and financial reporting matters. The Committee meets with the external auditors in private sessions and is also responsible for approving the independent auditing firm retained each year. Nonvoting representatives on the Committee include members of the University's administration as well as student, faculty, and staff representatives.

**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
AND AUDITORS' REPORT AS REQUIRED BY TITLE 2 U.S. CODE OF
FEDERAL REGULATIONS PART 200**

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
I. RESEARCH & DEVELOPMENT CLUSTER:				
<u>Department of Health and Human Services:</u>				
Administration for Children and Families:				
Westat, Inc.	93.000	6469-01-S001	\$ -	\$ 9,430
Westat, Inc.	93.000	6469-02-S001	-	80,538
Subtotal 93.000			-	89,968
Total Administration for Children and Families			-	89,968
Administration for Community Living:				
ACL National Institute on Disability, Independent Living, and Rehabilitation Research	93.433	Direct	713,134	4,906,739
Craig Hospital	93.433	UP001	-	5,343
Gallaudet University	93.433	0000023621	-	31,628
University of Alabama	93.433	000509854-002	-	19,706
University of Michigan	93.433	3004739336	-	68,193
University of Oklahoma	93.433	RS20181718-01	-	14,150
Subtotal 93.433			713,134	5,045,759
Other Administration for Community Living	93.000	Direct	-	70,623
Total Administration for Community Living			713,134	5,116,382
Agency for Healthcare Research and Quality:				
Research on Healthcare Costs, Quality and Outcomes	93.226	Direct	529,550	2,779,333
Columbia University	93.226	2(GG014652-01)	-	18,277
Commonwealth of Pennsylvania	93.226	4300572242	22,977	163,627
Commonwealth of Pennsylvania	93.226	0UD RURAL PA	46,689	436,959
Tufts University	93.226	HH5422	-	88,311
University of Arizona	93.226	455834	-	149,926
University of Illinois	93.226	16661	-	4,927
University of Massachusetts	93.226	OSP2017064	-	3,302
University of North Carolina	93.226	5111271	-	16,280
Vanderbilt University Medical Center	93.226	VUMC 67801	-	6,936
Subtotal 93.226			599,216	3,667,878
Total Agency for Healthcare Research and Quality			599,216	3,667,878
Centers for Disease Control and Prevention:				
Innovations in Applied Public Health Research	93.061	Direct	62,916	435,861
Gaia Medical Institute	93.061	SALIVA BIOMARKERS	-	3,115
Subtotal 93.061			62,916	438,976
Baobab Health Trust	93.067	COAG 2	-	91,154
Prevention of Disease, Disability, and Death through Immunization and Control of Respiratory and Related Diseases	93.083	Direct	-	764,211
Commonwealth of Pennsylvania	93.094	4300557058	-	122
Commonwealth of Pennsylvania	93.094	4300596656	-	12,000
Commonwealth of Pennsylvania	93.094	4300616620	-	64,722
Subtotal 93.094			-	76,844
Centers for Research and Demonstration for Health Promotion and Disease Prevention	93.135	Direct	-	652,323
Injury Prevention and Control Research and State and Community Based Programs	93.136	Direct	95,150	177,173
Commonwealth of Pennsylvania	93.136	4300590165	-	190,382
Medical College of Wisconsin	93.136	EARLY AWARD	-	120,196
Subtotal 93.136			95,150	487,751
Immunization Research, Demonstration, Public Information and Education Training and Clinical Skills Improvement Projects	93.185	Direct	-	2,952,568
Occupational Safety and Health Program	93.262	Direct	299,233	1,573,090
CPWR The Center for Construction Research and Training	93.262	3001-817-01 NIOSH	73,709	139,301
Mount Sinai School of Medicine	93.262	0254-5765-4609	-	7,058
Mount Sinai School of Medicine	93.262	0254-5766-4609	-	23,156
Texas A&M Engineering Experiment Station	93.262	28-M1803757	-	56,073
University of Southern California	93.262	67526719	-	472
Subtotal 93.262			372,942	1,799,150

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Rare Disorders: Research, Surveillance, Health Promotion and Education	93.315	Direct	-	66,982
Spina Bifida Association	93.315	14-2635	-	29,572
Subtotal 93.315			-	96,554
Johns Hopkins University	93.317	204222200	-	108,524
Johns Hopkins University	93.317	2003961962	-	190,595
Subtotal 93.317			-	299,119
Commonwealth of Pennsylvania	93.336	4300584791	-	(458)
Commonwealth of Pennsylvania	93.336	4300584804	-	410,387
North Dakota Department of Health	93.336	PF17.086	-	201,337
North Dakota Department of Health	93.336	200388831	-	228,767
Subtotal 93.336			-	840,033
American Academy of Pediatrics	93.421	851111-PITT	-	5,258
Commonwealth of Pennsylvania	93.426	4300609353	-	56,603
Johns Hopkins University	93.521	PHPA-G2650	-	1,267
Prevention and Public Health Fund (Affordable Care Act)				
Enhanced Surveillance for New Vaccine Preventable Disease	93.533	Direct	-	29,515
National Association of Chain Drug Stores Foundation	93.733	1H23 IP000985-01	-	1,505
Idaho Department of Health and Welfare	93.745	HC979800	-	107,900
Commonwealth of Pennsylvania	93.940	4300533540	-	(3,627)
Pennsylvania Pharmacists Association	93.945	4100065634 R2	-	24,574
Child Trends, Inc.	93.946	1372-00-002	-	1,736
Magee-Womens Research Institute & Foundation	93.991	EARLY AWARD	-	59,270
Other Centers for Disease Control and Prevention	93.000	Direct	-	570,881
RTI International	93.000	4-312-0215511-52924L	-	7,070
Subtotal 93.000			-	577,951
Total Centers for Disease Control and Prevention			531,008	9,360,635
Centers for Medicare and Medicaid Services:				
University of North Carolina	93.610	5107360	-	7,897
Centers for Medicare and Medicaid Services (CMS) Research, Demonstrations and Evaluations	93.779	Direct	-	74,413
Allegheny County	93.000	EARLY AWARD	-	42,251
Total Centers for Medicare and Medicaid Services			-	124,561
Food and Drug Administration:				
Albert Einstein College of Medicine	93.103	679835	-	17,065
Carnegie Mellon University	93.103	1090569-408772	-	121,597
Children's Hospital of Philadelphia	93.103	ACTIVITY #3201480819	-	96,608
Duke University	93.103	207574/215728	-	40
Emory University	93.103	T447384	-	26,059
Magee-Womens Research Institute & Foundation	93.103	9144	-	23,308
Magee-Womens Research Institute & Foundation	93.103	9145	-	11,606
New England Pediatric Device Consortium	93.103	NEPDC-010	-	2,739
University of Florida	93.103	UFOCR00012071	-	9,871
Subtotal 93.103			-	308,893
Magee-Womens Research Institute & Foundation	93.000	9154	-	61,025
University of Southern California	93.000	94065140	-	3,380
Subtotal 93.000			-	64,405
Total Food and Drug Administration			-	373,298
Health Resources and Services Administration:				
Health Research, Inc.	93.110	5606-01	-	(6,335)
Health Research, Inc.	93.110	5606-02	-	41,759
Massachusetts General Hospital	93.110	226858	-	29,545
Massachusetts General Hospital	93.110	226859	-	27,080
Massachusetts General Hospital	93.110	227146	-	20,515
Rand Corporation	93.110	9920160068	-	626
Subtotal 93.110			-	113,190
Research Institute at Nationwide Children's Hospital	93.127	710040-0818-00	-	28,540
Research Institute at Nationwide Children's Hospital	93.127	710040-0819-00	-	97,288
Subtotal 93.127			-	125,828

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Grants to Increase Organ Donations	93.134	Direct	32,451	279,504
HIV-Related Training and Technical Assistance	93.145	Direct	1,889,247	2,908,198
Rutgers University	93.145	0759	19,058	28,068
Rutgers University	93.145	821743	9,288	8,831
University of Massachusetts	93.145	OSP2018085	-	61,944
Subtotal 93.145			<u>1,917,593</u>	<u>3,007,041</u>
National Research Service Award in Primary Care Medicine	93.186	Direct	-	361,793
One Care of Southwest Virginia, Inc.	93.211	HRSA-18-116	-	39,528
University of North Carolina	93.300	5110180	-	15,486
University of North Carolina	93.300	5113256	-	17,307
Subtotal 93.300			<u>-</u>	<u>32,793</u>
Fulton County Family Partnership, Inc.	93.912	HRSA- 001	-	30,603
Hennepin Healthcare Research Institute	93.000	LIVING DONOR PROJECT	-	68,767
Total Health Resources and Services Administration			<u>1,950,044</u>	<u>4,059,047</u>
National Institutes of Health:				
Family Smoking Prevention and Tobacco Control Act				
Regulatory Research	93.077	Direct	16,665	333,581
Duke University	93.077	2036158	-	233,035
University of Southern California	93.077	98523373	-	21,306
Subtotal 93.077			<u>16,665</u>	<u>587,922</u>
Environmental Health	93.113	Direct	229,335	5,791,951
University of Cincinnati	93.113	010539-007	-	61,304
University of New Mexico	93.113	3RAV2	-	49,099
Wayne State University	93.113	WSU14055-A4	-	10,218
Subtotal 93.113			<u>229,335</u>	<u>5,912,572</u>
Oral Diseases and Disorders Research	93.121	Direct	2,444,378	8,832,306
Emory University	93.121	A059210	-	17,111
HealthPartners Institute for Education and Research	93.121	X1510700PITT	-	38,883
International Agency for Research on Cancer	93.121	GEP/17/05	-	65,464
Johns Hopkins University	93.121	2003159250	-	801
Johns Hopkins University	93.121	2003323556	-	7,867
Massachusetts General Hospital	93.121	234245	-	4,491
NanoMAG, LLC	93.121	NANOMAG/PITT 2	-	16,331
Texas A&M University	93.121	M1802125	-	21,223
University of Michigan	93.121	3004741923	-	1,240,542
University of Michigan	93.121	SUBK00006151	-	304,312
University of Puerto Rico Medical Sciences Campus	93.121	ZIKA INFECTION	-	34,684
University of Texas M.D. Anderson Cancer Center	93.121	EARLY AWARD	-	67,677
Subtotal 93.121			<u>2,444,378</u>	<u>10,651,692</u>
Human Genome Research	93.172	Direct	484,619	1,712,079
Vanderbilt University Medical Center	93.172	UNIV41774	-	830
Subtotal 93.172			<u>484,619</u>	<u>1,712,909</u>
Research Related to Deafness and Communication Disorders	93.173	Direct	509,750	6,240,275
Arizona State University	93.173	13-945	-	49,202
CFD Research Corporation	93.173	20180353	-	20,422
Emory University	93.173	A100731	-	31,235
Neuro Kinetics, Inc.	93.173	NKI-CRHITV-02	-	78,809
Northwestern University	93.173	SP0044830PROJ0012558	-	10,118
Prentke Romich Company	93.173	5020	-	5,474
Stanford University	93.173	62078576-136940	-	85,716
University of Utah	93.173	10036512-03	-	46,373
University of Utah	93.173	10041913-007	-	5,499
Veterans Research Foundation of Pittsburgh	93.173	4503	-	34,598
Veterans Research Foundation of Pittsburgh	93.173	PRO07080061	-	12,000
Veterans Research Foundation of Pittsburgh	93.173	PRO09010491	-	5,790
Subtotal 93.173			<u>509,750</u>	<u>6,625,511</u>

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Research and Training in Complementary and Integrative Health	93.213	Direct	8,079	903,462
Carnegie Mellon University	93.213	1090513-385626	-	4,437
Carnegie Mellon University	93.213	1090513-385788	-	6,013
Carnegie Mellon University	93.213	1090513-386172	-	22,825
Carnegie Mellon University	93.213	1090541-397713	-	12,956
Carnegie Mellon University	93.213	1090552-404619	-	52,246
Carnegie Mellon University	93.213	1090552-404725	-	68,576
Carnegie Mellon University	93.213	1090552-404868	-	86,480
Case Western Reserve University	93.213	RES509358	-	(196)
Furanica, Inc.	93.213	R43AT009806-AGT01	-	80,629
Northwestern University	93.213	60047299 PITT	-	291,075
Northwestern University	93.213	60050243 UP	-	21,806
Palmer College Foundation	93.213	12270	-	28,687
University of Minnesota	93.213	P005878801	-	335,345
Veterans Research Foundation of Pittsburgh	93.213	FOOD POLYPHENOLS	-	2,041
Veterans Research Foundation of Pittsburgh	93.213	TABER MASKREY WORK	-	11,984
Washington State University	93.213	132418 G003792	-	354,572
Subtotal 93.213			8,079	2,282,938
National Center on Sleep Disorders Research	93.233	Direct	-	842,463
Beth Israel Deaconess Medical Center	93.233	01028583	-	(1,404)
Magee-Womens Research Institute & Foundation	93.233	7005	-	309,787
Oregon Health & Science University	93.233	1012376_UPITT	-	24,419
Rand Corporation	93.233	400075	-	5,825
Rand Corporation	93.233	9920150085	-	30,390
Subtotal 93.233			-	1,211,480
Mental Health Research Grants	93.242	Direct	3,298,411	42,186,588
Beth Israel Deaconess Medical Center	93.242	01028829	-	(1,340)
Brown University	93.242	00000707	-	(165)
Carnegie Mellon University	93.242	1090521-397548	-	114,543
Carnegie Mellon University	93.242	1090522-390404	-	65,184
Carnegie Mellon University	93.242	1090534-406558	-	25,823
Carnegie Mellon University	93.242	1090556-406675	-	160,822
Center for Social Innovation	93.242	5546-01-2018	-	7,871
Center for Social Innovation	93.242	EARLY AWARD	-	28,164
Drexel University	93.242	860280	-	4,292
Florida International University	93.242	800008268-01UG	-	38,930
Florida State University	93.242	R01915	-	40,447
Magee-Womens Research Institute & Foundation	93.242	5238	-	125,659
Mount Sinai School of Medicine	93.242	0255-0424-4609	-	(1,784)
Mount Sinai School of Medicine	93.242	0255-0426-4609	-	83,641
Mount Sinai School of Medicine	93.242	0255-1571-4609	-	14
Mount Sinai School of Medicine	93.242	0255-2001-4609	-	154,175
Mount Sinai School of Medicine	93.242	0255-5324-4609	-	56,834
NuRelm, Inc.	93.242	20181031-PITT	-	39,311
Rand Corporation	93.242	9920170066	-	37,922
Research Foundation for Mental Hygiene, Inc.	93.242	26690	-	285,583
Stellenbosch University	93.242	S0003866	-	30,386
University of California at Berkeley	93.242	00008702	-	27,599
University of Chicago	93.242	FP052801	-	(46,815)
University of Chicago	93.242	FP062571-C	-	13,630
University of Maryland, Baltimore	93.242	1600205	-	49,895
University of Michigan	93.242	3003272653	-	7,754
University of Michigan	93.242	3004134618	-	44,480
University of Michigan	93.242	3004654072	-	32,444
University of Nebraska Medical Center	93.242	34-5250-2007-001	-	120,238
University of Oregon	93.242	215770A	-	444,954
University of Oregon	93.242	281450A	-	168,289
University of Pennsylvania	93.242	571214	-	(2,601)
University of Pennsylvania	93.242	573873	-	26,535
University of Rochester	93.242	416630-G	-	345,774
University of Southern California	93.242	82396976	-	(12,057)
University of Vermont	93.242	32146SUB52469	-	128,939
Vanderbilt University Medical Center	93.242	VUMC 66715	-	17,748
Wake Forest University	93.242	WFUHS 550833	-	15,632
Wake Forest University	93.242	WFUHS 551843	-	15,632
Washington University in St. Louis	93.242	WU-19-70	-	9,815
Yale University	93.242	GR100611-CON80000808	-	33,830
Subtotal 93.242			3,298,411	44,924,615

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Alcohol Research Programs	93.273	Direct	1,084,470	8,013,683
Athersys, Inc.	93.273	STTR PHASE II	-	99,832
Carnegie Mellon University	93.273	1090526-389745	-	19,181
Cleveland Clinic Lerner College of Medicine	93.273	1113-SUB	-	12,406
Cleveland Clinic Lerner College of Medicine	93.273	906-SUB	-	2,481
Pacific Institute for Research and Evaluation	93.273	0097.36.06	-	114,424
Pacific Institute for Research and Evaluation	93.273	0097.37.06	-	112,403
Pacific Institute for Research and Evaluation	93.273	0790	-	6,037
University of Washington	93.273	UWSC10629	-	18,752
Wayne State University	93.273	WSU18014	-	29,732
Yale University	93.273	GK000083 CON80000363	-	27,311
Yale University	93.273	GR101373CON-80001004	-	2,603
Yale University	93.273	GR104428CON-80001431	-	14,461
Subtotal 93.273			1,084,470	8,473,306
Drug Abuse and Addiction Research Programs	93.279	Direct	2,018,425	13,968,357
Boston Medical Center	93.279	0511501	-	(373)
Boston Medical Center	93.279	6161	-	2,926
Boston Medical Center	93.279	6161 - 6885	-	15,634
Carnegie Mellon University	93.279	1090517-387815	-	15,440
Carnegie Mellon University	93.279	1090553-404923	-	28,931
Duke University	93.279	2034171	-	(431)
Duke University	93.279	2037242	-	18,650
Emory University	93.279	T227715	-	(7,888)
Jackson Laboratory	93.279	210247-0418-09	-	125,665
Jackson Laboratory	93.279	PO 208935	-	(4,819)
Jackson Laboratory	93.279	EARLY AWARD	-	27,293
Magee-Womens Research Institute & Foundation	93.279	6590	-	199,846
Magee-Womens Research Institute & Foundation	93.279	7421	-	23,576
Magee-Womens Research Institute & Foundation	93.279	8020	-	(135)
Magee-Womens Research Institute & Foundation	93.279	8099	-	132,205
Northwestern University	93.279	60050859 PITT	-	13,277
Oregon Health & Science University	93.279	1006667_UPITT	-	55,793
RTI International	93.279	888-11-16-02	-	252,951
Rutgers University	93.279	4731	-	(2,265)
SRI International	93.279	PO27396	-	54,909
Temple University	93.279	262474UPITT	-	32,567
University of California San Diego	93.279	113950787	-	9,950
University of Florida	93.279	UFDSP00010884	-	10,700
University of Massachusetts	93.279	WA00458201OSP2017020	-	218,371
University of Miami	93.279	SPC-000239	-	17,776
University of Michigan	93.279	3004529158	-	2,725
University of Nebraska Medical Center	93.279	34-5250-2009-001	-	39,057
University of Utah	93.279	10050920-01	523	46,993
Yale University	93.279	GR101076	-	5,117
Yale University	93.279	GR104009-CON80001376	-	24,440
Subtotal 93.279			2,018,948	15,327,238
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Direct	309,187	3,667,786
Carnegie Mellon University	93.286	1090514-390482	-	10,253
Carnegie Mellon University	93.286	1090530-395680	-	132,684
Carnegie Mellon University	93.286	1090550-405293	-	109,111
Case Western Reserve University	93.286	RES512641	-	(5,033)
Case Western Reserve University	93.286	RES513611	-	67,828
Children's Hospital of Los Angeles	93.286	RGF010339-B	-	96,755
Illinois Institute of Technology	93.286	A19-0016-S001	-	19,360
Massachusetts General Hospital	93.286	233327	-	48,461
Sheehan Medical LLC	93.286	ULTRASOUND TRAINING	-	(2,533)
University of North Carolina	93.286	5108992	-	70,248
University of Utah	93.286	10049378-UPITT	-	9,820
Yale University	93.286	M14A11794	-	59,880
Subtotal 93.286			309,187	4,284,620
Minority Health and Health Disparities Research	93.307	Direct	742,198	2,597,603
Columbia University	93.307	2(GG012238)	-	67,924
University of Arizona	93.307	462673	-	36,093
University of Chicago	93.307	FP064671-01	-	22,656
University of Iowa	93.307	1001859514	-	58,656

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
University of Maryland, Baltimore	93.307	1600101	-	38,542
University of Mississippi Medical Center	93.307	66106330216UP	-	13,481
Virginia Commonwealth University	93.307	FP00000731_SA001	-	46,671
Subtotal 93.307			<u>742,198</u>	<u>2,881,626</u>
Trans-NIH Research Support	93.310	Direct	1,485,517	17,735,905
California State University, Northridge	93.310	A15-0012-S014	-	37,876
Carnegie Mellon University	93.310	1090565-407039	-	231,703
Case Western Reserve University	93.310	RES512402	-	106,517
Massachusetts General Hospital	93.310	229365	-	538
Massachusetts General Hospital	93.310	233284	-	3,116
Medical University of South Carolina	93.310	MUSC18-007-8C267	-	1,728
Micro-Leads, Inc.	93.310	10T2OD024908-01-4908	-	72,179
Micro-Leads, Inc.	93.310	30T2OD024908-01S1	-	77,192
Mount Sinai School of Medicine	93.310	0255-2442-4609	-	12,763
Mount Sinai School of Medicine	93.310	EARLY AWARD	-	8,175
University of California at Los Angeles	93.310	1553 G VC502	-	46,990
University of Rochester	93.310	416982GURFAOGR510588	-	48,602
University of Rochester	93.310	417410GURFAOGR510838	-	129,375
University of Southern California	93.310	64859556	-	615
University of Toledo	93.310	F-2017-123	-	(2,914)
University of Toledo	93.310	F-2018-25	-	395,982
University of Washington	93.310	UWSC9410	-	5,911
University of Wisconsin	93.310	830K631	-	98,875
Vanderbilt University Medical Center	93.310	EARLY AWARD	-	15,939
Subtotal 93.310			<u>1,485,517</u>	<u>19,027,067</u>
National Center for Advancing Translational Sciences	93.350	Direct	4,879,766	21,459,428
Allegheny Singer Research Institute	93.350	49801509	-	75,990
Duke University	93.350	203-7853	-	17,798
Massachusetts Institute of Technology	93.350	5710004148	-	(303)
University of Pennsylvania	93.350	571955	-	1,555
University of Texas Health Science Center at San Antonio	93.350	164073/164067	-	145,097
Vanderbilt University	93.350	UNIV60378	-	487,579
Washington University in St. Louis	93.350	WU-18-404	-	213
Washington University in St. Louis	93.350	WU-18-404-MOD-1	-	9,045
Subtotal 93.350			<u>4,879,766</u>	<u>22,196,402</u>
Research Infrastructure Programs	93.351	Direct	273,299	4,016,190
Carnegie Mellon University	93.351	1090520-394508	-	47,614
University of Michigan	93.351	3004884630	-	76,892
Subtotal 93.351			<u>273,299</u>	<u>4,140,696</u>
21st Century Cures Act - Beau Biden Cancer Moonshot	93.353	Direct	32,618	5,659,610
Fred Hutchinson Cancer Research Center	93.353	00009963491	-	8,316
Magee-Womens Research Institute & Foundation	93.353	6800	-	240,549
Subtotal 93.353			<u>32,618</u>	<u>5,908,475</u>
Nursing Research	93.361	Direct	1,234,681	5,463,537
Carnegie Mellon University	93.361	1090487-390359	-	34,647
Cornell University	93.361	84286-11030	-	256,937
Duke University	93.361	205859	-	18,067
Emory University	93.361	T792512	-	(17,536)
Emory University	93.361	T979384	-	86,326
Magee-Womens Research Institute & Foundation	93.361	7010	-	4,018
University of North Carolina	93.361	5106245	-	105,176
University of North Carolina	93.361	5112455	-	25,008
Subtotal 93.361			<u>1,234,681</u>	<u>5,976,180</u>
Cancer Cause and Prevention Research	93.393	Direct	830,576	8,560,007
Fred Hutchinson Cancer Research Center	93.393	0000920331	-	2,926
Fred Hutchinson Cancer Research Center	93.393	0000956670	-	15,595
Johns Hopkins University	93.393	2003599606	-	29,759
Northwestern University	93.393	60037274 UP	-	62,803
Rand Corporation	93.393	9920190020	-	38,184
University of Pennsylvania	93.393	568654	-	24,795
University of Southern California	93.393	112322259	-	196,796
University of Southern California	93.393	87299989	-	30,010
University of Texas M.D. Anderson Cancer Center	93.393	3000991391	-	3,906
University of Texas M.D. Anderson Cancer Center	93.393	3001065589	-	47,218
University of Texas M.D. Anderson Cancer Center	93.393	3001216061	-	11,528

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
University of Texas M.D. Anderson Cancer Center	93.393	EARLY AWARD	-	2,684
University of Virginia	93.393	GB10208 150461	-	82,533
University of Washington	93.393	UWSC7067	-	(2,694)
Wake Forest University	93.393	WFUHS 114040	-	(26)
Washington State University	93.393	130544-G003975	-	17,327
Subtotal 93.393			830,576	9,123,351
Cancer Detection and Diagnosis Research	93.394	Direct	1,828,398	5,628,680
Boston University	93.394	4500002272	-	95,554
Brigham & Women's Hospital	93.394	115580	-	231,159
Cernostics, Inc.	93.394	R44CA192416SA	-	12,403
Children's Hospital of Boston	93.394	GENFD0001345545	-	(6,484)
Children's Hospital of Boston	93.394	GENFD0001457297	-	128,373
Duquesne University	93.394	G1400051	-	42,732
Ecog-Acrin Medical Research Foundation, Inc.	93.394	U24CA196172-01-PITT1	-	45,732
Fred Hutchinson Cancer Research Center	93.394	0000938543	-	12,086
Fred Hutchinson Cancer Research Center	93.394	00899671	-	4,029
Johns Hopkins University	93.394	2003087222	-	105
Johns Hopkins University	93.394	2003087222	-	45,771
Magee-Womens Research Institute & Foundation	93.394	5105	-	24,741
Massachusetts General Hospital	93.394	226786	-	101,884
NRG Oncology Foundation, Inc.	93.394	NRG BSB-PITT YR 1	48,926	61,539
NRG Oncology Foundation, Inc.	93.394	EARLY AWARD	-	4,751
Stanford University	93.394	61960261-122878	-	151,326
University of Chicago	93.394	EARLY AWARD	-	1,256,216
University of Washington	93.394	UWSC10500	-	23,543
Van Andel Institute	93.394	V544-CR1-2	-	65,499
Van Andel Institute	93.394	EARLY AWARD	-	20,523
Subtotal 93.394			1,877,324	7,950,162
Cancer Treatment Research	93.395	Direct	6,942,335	19,643,859
Brigham & Women's Hospital	93.395	120624	-	240,624
Brigham & Women's Hospital	93.395	120627	-	105,529
Brigham & Women's Hospital	93.395	BWH ALLIANCE	-	24,756
Cancer Targeted Technology, LLC	93.395	CTT-PITT09192018	-	26,316
Cedars-Sinai Medical Center	93.395	1524466	-	8,455
Children's Hospital of Philadelphia	93.395	9500080215-12C	-	69,490
Children's Hospital of Philadelphia	93.395	9500080215-13C	-	44,000
Children's Hospital of Philadelphia	93.395	9500080216-S7XX	-	667
Children's Hospital of Philadelphia	93.395	FP00013560_SUB33_01	-	11,097
Children's Hospital of Philadelphia	93.395	FP00015221_SUB395_01	-	8,201
Children's Hospital of Philadelphia	93.395	FP00017458_SUB52_01	-	8,296
Children's Hospital of Philadelphia	93.395	FP00021561_SUB04_01	-	(1,134)
Children's Research Institute	93.395	30004166-04	-	14,412
Duke University	93.395	2037160	-	1,197
Ecog-Acrin Medical Research Foundation, Inc.	93.395	IND FED	-	76,643
Ecog-Acrin Medical Research Foundation, Inc.	93.395	U10CA180820-01-PITT1	-	11,259
Ecog-Acrin Medical Research Foundation, Inc.	93.395	EARLY AWARD	-	(6,593)
Fred Hutchinson Cancer Research Center	93.395	0000946743	-	9,742
Frontier Science & Technology Research Foundation	93.395	AMC CAN RES CTR	-	24
Johns Hopkins University	93.395	ABTC 1301	-	(2,910)
Johns Hopkins University	93.395	ABTC 1302	-	(673)
Johns Hopkins University	93.395	ABTC 1401	-	4,602
Johns Hopkins University	93.395	ABTC 1603	-	3,811
Johns Hopkins University	93.395	ABTC 1604	-	2,760
Johns Hopkins University	93.395	ABTC1501BMSCA209-596	-	11,380
Magee-Womens Research Institute & Foundation	93.395	6804	-	150,330
Magee-Womens Research Institute & Foundation	93.395	6808	-	(3,103)
Mayo Clinic Rochester	93.395	ALLIANCE	-	2,500
NRG Oncology Foundation, Inc.	93.395	FORTE01-SCHOEN	-	4,517
NRG Oncology Foundation, Inc.	93.395	NRG FED	-	6,586
NRG Oncology Foundation, Inc.	93.395	PITT SDMC-NCORP-01	1,455,522	3,007,257
NSABP Foundation, Inc.	93.395	Pitt - Yr. 1	-	136,541
NSABP Foundation, Inc.	93.395	WASHU GY5 - NSABP	-	9,713
NSABP Foundation, Inc.	93.395	YR4-NSABP-PITT SDMC	-	(21,872)
Oncovir, Inc.	93.395	16-028 ONC2014-001	-	3,015
ReveraGen BioPharma, Inc.	93.395	Phase II VBP15	-	66
St. Jude Children's Research Hospital	93.395	110068190-7761462	-	117
St. Jude Children's Research Hospital	93.395	110068200-7815261	-	79,221
St. Jude Children's Research Hospital	93.395	PBTC-051	-	612
Texas State University	93.395	19022-83187-1	-	5,310
University of California at San Francisco	93.395	8985SC	-	16,983
University of Illinois	93.395	16349	-	85,205

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
University of Michigan	93.395	3004687808	-	209,303
University of South Alabama	93.395	A17-0064-S002	-	37,733
University of South Alabama	93.395	A17-0064-S003	-	4,710
Washington University in St. Louis	93.395	WU-17-437	-	24,310
Subtotal 93.395			8,397,857	24,074,864
Cancer Biology Research	93.396	Direct	545,934	6,138,214
Aethlon Medical, Inc.	93.396	0001	-	53,979
Fred Hutchinson Cancer Research Center	93.396	0000940823	-	18,751
Fred Hutchinson Cancer Research Center	93.396	0000979569/215475	-	1,394
Love Research Foundation	93.396	PITT-CA189966	-	10,147
Magee-Womens Research Institute & Foundation	93.396	6807	-	165,953
Magee-Womens Research Institute & Foundation	93.396	6810	-	127,856
Nymirum, Inc.	93.396	MICRO RNAS	-	26,384
Sage Bionetworks	93.396	CSBCPITT2017	-	7,219
Texas A&M University	93.396	23-M1802029	-	10,290
Texas A&M University	93.396	M1901199	-	47,098
University of Pennsylvania	93.396	568432	-	137,615
University of Texas M.D. Anderson Cancer Center	93.396	3001122307	-	8,052
Wistar Institute	93.396	29014-02-363	-	2,277
Wistar Institute	93.396	29016-02-363	-	71,274
Subtotal 93.396			545,934	6,826,503
Cancer Centers Support Grants	93.397	Direct	451,528	3,443,401
Dana Farber Cancer Institute	93.397	1289454	-	2,714
Health Research Inc. - Roswell Park Division	93.397	122-05	-	1,917
Northwestern University	93.397	60041626 UP	-	5,615
Roswell Park Cancer Institute	93.397	122-06	-	211,603
Vanderbilt University Medical Center	93.397	VUMC 65484	-	5,828
Washington University in St. Louis	93.397	WU-18-212	-	943
Subtotal 93.397			451,528	3,672,021
Cancer Research Manpower	93.398	Direct	-	2,018,220
Magee-Womens Research Institute & Foundation	93.398	6589	-	19,078
Magee-Womens Research Institute & Foundation	93.398	6592	-	101,776
University of Rochester	93.398	417083G	-	(6,564)
University of Rochester	93.398	417346	-	86,509
Subtotal 93.398			-	2,219,019
Cardiovascular Diseases Research	93.837	Direct	2,049,373	28,935,472
All Children's Research Institute, Inc.	93.837	ACRI 13-001	-	8,349
Beth Israel Deaconess Medical Center	93.837	01028492	-	965
Brigham & Women's Hospital	93.837	113408	-	(817)
Brigham & Women's Hospital	93.837	INVESTED	-	3,921
Brown University	93.837	00000954	-	208,615
Brown University	93.837	00000960	-	306,839
Brown University	93.837	00001214	-	79,119
Children's Hospital of Philadelphia	93.837	3200170321	-	18,390
Cleveland Clinic Lerner College of Medicine	93.837	1022-SUB	-	21,701
Cornell University	93.837	84545-11080	-	65,945
Duke University	93.837	2034246	-	(25)
Duke University	93.837	2034809	-	(11,013)
Duke University	93.837	2037350	-	129,521
Emory University	93.837	T962650	-	37,340
Emory University	93.837	T970333	-	68,531
Feinstein Institute for Medical Research	93.837	500736UOP	-	77,170
Florida International University	93.837	800006875-01UG	-	9,412
Henry M. Jackson Foundation	93.837	3735	-	332
Indiana University	93.837	IN-4688372-PIT	-	29,322
Johns Hopkins University	93.837	2002379522	-	(2,997)
Kaiser Foundation Research Institute	93.837	OOS030150_UoP	-	21,841
Magee-Womens Research Institute & Foundation	93.837	2221	-	10,241
Magee-Womens Research Institute & Foundation	93.837	5234	-	7,127
Massachusetts General Hospital	93.837	226586	-	28,914
Massachusetts General Hospital	93.837	230547	-	244,079
Massachusetts General Hospital	93.837	PS#225709	-	13,866
Medical College of Wisconsin	93.837	5R01 HL119747-05	-	2,210
Mount Sinai School of Medicine	93.837	0255-3108-4609	-	89,374
Mount Sinai School of Medicine	93.837	0255-A341-4605	-	29,481
New England Research Institutes	93.837	BEST-CLI	-	932
New England Research Institutes	93.837	EXHIBIT A	-	73,697
New England Research Institutes	93.837	HEART NETWORK SUBAWD	-	21,272
New York University School of Medicine	93.837	15-A1-00-003412-01	-	50,554

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Northwestern University	93.837	60039432 PITT	-	36,208
Oregon Health & Science University	93.837	1011985_UPITT	-	21,455
Rand Corporation	93.837	9920160072	-	96,587
Rand Corporation	93.837	9920180116	-	65,559
Seattle Children's Hospital	93.837	11302SUB	-	7,588
University of Alabama	93.837	000506884-002	-	661
University of Alabama	93.837	000507361-009	-	(102,696)
University of Alabama	93.837	000509971-004 A02	-	(4,654)
University of Alabama	93.837	000518176-004 A03	-	2,920
University of Alabama	93.837	000518176-004 A05	-	23,868
University of California	93.837	2014-3107	-	(2,074)
University of California at Irvine	93.837	2014-3108	-	(30)
University of California at Los Angeles	93.837	1520 G WC256	-	28,312
University of California at San Francisco	93.837	10893SC	-	52,599
University of Chicago	93.837	FP064434-B	-	559,733
University of Delaware	93.837	45433	23,682	402,226
University of Illinois	93.837	16990	-	7,238
University of Michigan	93.837	3004174082	-	26,710
University of Minnesota	93.837	N005339702	-	11,677
University of Minnesota	93.837	N006187439	-	13,014
University of North Carolina	93.837	5108124	-	19,641
University of Pennsylvania	93.837	569052	-	3,409
University of Rochester	93.837	417044GURFAOGR500479	-	1,676
University of Rochester	93.837	417488GURFAOGR510850	-	491
University of Washington	93.837	UWSC8676	-	269,518
University of Washington	93.837	UWSC9052	-	82,966
University of Washington	93.837	UWSC9200	-	45,820
Vanderbilt University Medical Center	93.837	VUMC44131	-	4,382
Wayne State University	93.837	WSU15109-A1	-	(596)
Yale University	93.837	GR103769-CON80001340	-	78,132
Yale University	93.837	M17A12428CON80000838	-	2,061
Subtotal 93.837			2,073,055	32,334,081
Lung Diseases Research	93.838	Direct	5,113,187	31,555,528
Allegheny Health Network	93.838	49708209	-	84,434
Carnegie Mellon University	93.838	1090449-360690	-	(6,692)
Indiana University	93.838	IN4687826UP	-	10,825
Johns Hopkins University	93.838	2003090748	-	89,650
Massachusetts General Hospital	93.838	224404	-	11,729
Massachusetts General Hospital	93.838	229886	4,583	62,084
Massachusetts General Hospital	93.838	229960 - PETAL	127,687	185,078
National Jewish Medical and Research Center	93.838	20072410	-	59,719
Pennsylvania State University	93.838	PITSCHL109086	-	62,987
Rhode Island Hospital	93.838	701-7137369	-	9,745
Scripps Research Institute	93.838	5-27245	-	45,758
Seattle Children's Hospital	93.838	11018SUB	-	6,645
University of Alabama	93.838	000507361-006	-	(67,257)
University of Alabama	93.838	000507361-009 A03	-	92,692
University of Alabama	93.838	000513913-001	-	47,199
University of California at San Francisco	93.838	8005SC	-	(525)
University of Michigan	93.838	3004174082	-	113,731
University of Pennsylvania	93.838	565138	-	12,010
University of Vermont	93.838	33180SUB52703	-	27,547
Virginia Commonwealth University	93.838	FP00007971_SA002	-	20,911
Yale University	93.838	GK000130CON80000445	-	42,286
Subtotal 93.838			5,245,457	32,466,084
Blood Diseases and Resources Research	93.839	Direct	508,177	6,602,726
Blood Systems, Inc.	93.839	11685UP140	-	11,058
BloodCenter of Wisconsin, Inc.	93.839	0115-81148	-	5,634
BloodCenter of Wisconsin, Inc.	93.839	0116-81148	-	(390)
BloodCenter of Wisconsin, Inc.	93.839	0263-81148	-	(116)
Carnegie Mellon University	93.839	1090505-392431	-	(14,796)
Cornell University	93.839	84528-11104	-	206,731
Emory University	93.839	T781364	-	247,932
Emory University	93.839	T781393	-	19,120
Fred Hutchinson Cancer Research Center	93.839	0000907526	-	(3,069)
Fred Hutchinson Cancer Research Center	93.839	0000944540	-	42,347
Howard University	93.839	0008946-1000063891	-	28,684
IGI Technologies, Inc.	93.839	0004	-	23,218
Massachusetts Institute of Technology	93.839	5710003771	-	(2,190)
Medical College of Wisconsin	93.839	PO#6077365	-	23,598
Ohio State University	93.839	60058497	-	21,737

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Oklahoma Medical Research Foundation	93.839	0240-04/UPITTCC	-	(7)
Platelet Biogenesis, Inc.	93.839	5R44HL131050-SUPPLEM	-	4,251
Platelet Biogenesis, Inc.	93.839	02	-	89,788
Rutgers University	93.839	0498	-	18,140
University of Miami	93.839	SPC-000237	-	4,438
University of Michigan	93.839	SUBK00009076	-	229,001
University of Michigan	93.839	SUBK00009081	-	679,587
University of Minnesota	93.839	N006919401	-	1,878
University of North Carolina	93.839	5112805	-	1,885
Washington University in St. Louis	93.839	WU-17-92	-	2,609
Washington University in St. Louis	93.839	WU-18-272	-	5,408
Subtotal 93.839			508,177	8,249,202
Translation and Implementation Science Research for Heart, Lung, Blood Diseases, and Sleep Disorders	93.840	Direct	-	366,911
Arthritis, Musculoskeletal & Skin Diseases Research	93.846	Direct	1,151,464	11,270,271
Baylor College of Medicine	93.846	7000000048	-	3,145
Berkeley Madonna, Inc.	93.846	001	-	16,845
Brigham & Women's Hospital	93.846	110647	-	14,670
Brigham & Women's Hospital	93.846	113296	-	8,088
Brigham & Women's Hospital	93.846	117004	-	75,573
Brigham & Women's Hospital	93.846	PS113296	-	(59)
Case Western Reserve University	93.846	RES510678	-	(1,277)
CFD Research Corporation	93.846	20180312 D.C	-	3,484
Children's Research Institute	93.846	30000333-01	-	68,464
Columbia University	93.846	2(GG012460)	-	45,231
Duke University	93.846	2832076	-	1,146
Duke University	93.846	A030249	-	1,146
Emory University	93.846	T801152	-	27,144
Johns Hopkins University	93.846	2003840289	-	35,110
Johns Hopkins University	93.846	STREAM	-	(46)
Northwestern University	93.846	60036404 UP	-	37,041
University of Arizona	93.846	249827	-	17,158
University of Massachusetts	93.846	OSP18811-00	-	9,297
University of Miami	93.846	SPC-000387	-	36,668
University of Michigan	93.846	3003826635-SF	-	1,090
University of Pennsylvania	93.846	560224	-	18,034
University of Pennsylvania	93.846	572644	-	10,361
University of Pennsylvania	93.846	575155	-	41,837
Subtotal 93.846			1,151,464	11,740,421
Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847	Direct	3,203,296	40,440,330
Actuated Medical, Inc.	93.847	5061-S01	-	17,856
Arbor Research Collaborative for Health	93.847	DLV	-	7,606
Augusta University	93.847	30835-58	-	11,841
Beth Israel Deaconess Medical Center	93.847	01060021	-	7,631
Beth Israel Deaconess Medical Center	93.847	EARLY AWARD	-	13,976
Carnegie Mellon University	93.847	1042382-334343	-	66,880
Carnegie Mellon University	93.847	1090523-396399	-	111,014
Carnegie Mellon University	93.847	1090558-406229	-	76,154
Case Western Reserve University	93.847	RES509468	-	7,443
Case Western Reserve University	93.847	RES512222	-	29
Case Western Reserve University	93.847	RES512837	-	23,777
Case Western Reserve University	93.847	RES512869	-	6,004
Case Western Reserve University	93.847	RES513282	-	122,501
Children's Hospital of Boston	93.847	GENFD0001512202	-	173,780
Cleveland Clinic Lerner College of Medicine	93.847	805-SUB	-	60,535
Cleveland Clinic Lerner College of Medicine	93.847	871-SUB	-	553
Cleveland Clinic Lerner College of Medicine	93.847	EARLY AWARD	-	209,229
Columbia University	93.847	1(GG007740-01)	-	(131)
Dartmouth College	93.847	R986	-	90,612
Emmes Corporation	93.847	CITR STUDY	-	628
George Washington University	93.847	15-D15	-	7,209
George Washington University	93.847	16-D15	-	151,299
George Washington University	93.847	16-M79	-	6,519
George Washington University	93.847	EARLY AWARD	-	14,107
Indiana University	93.847	IN-4687972-UP	-	2,949
Johns Hopkins University	93.847	2004074834	-	7,110
Kaiser Foundation Health Plan of Washington	93.847	2017138477	-	2,526
Kaiser Foundation Health Plan of Washington	93.847	EARLY AWARD	-	30,951
Kaiser Foundation Research Institute	93.847	RNG200279-07	-	54,324
Lipella Pharmaceuticals, Inc.	93.847	2R42DK108397	-	73,208

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Lipella Pharmaceuticals, Inc.	93.847	2R44DK102247	-	104,661
Magee-Womens Research Institute & Foundation	93.847	1765	-	42,411
Massachusetts General Hospital	93.847	223615	-	14,918
Medical College of Wisconsin	93.847	1755216	-	2,363
Medical College of Wisconsin	93.847	PO #1757436	-	2,820
Medical College of Wisconsin	93.847	PO #6061883	-	50,647
Medical University of South Carolina	93.847	MUSC15-029	-	97,108
Medical University of South Carolina	93.847	MUSC16-093-8C281	-	(2,837)
Medical University of South Carolina	93.847	MUSC17-091-8C976	-	1,646
Medical University of South Carolina	93.847	MUSC18-087-8D377	-	146,049
Michigan State University	93.847	RC105482UOFFITT	-	36,992
Mount Sinai School of Medicine	93.847	0255-2172-4609	-	2,916
Mount Sinai School of Medicine	93.847	0255-5137-4609	-	286,225
Mount Sinai School of Medicine	93.847	0255-A941-4609	-	4,256
Oregon Health & Science University	93.847	1004965_UPITT	-	28,570
Oregon Health & Science University	93.847	1004965_UPITT_BELLE	-	51,465
Pennsylvania State University	93.847	UPITTDK111667	-	73,924
Research Institute - McGill University Health Center	93.847	PO CC393	-	244,112
Sanford Research	93.847	SR-2019-203	-	24,985
State University of New York	93.847	1138946-77867	-	5,000
University of Bristol	93.847	69464	-	50
University of California	93.847	10749SC	-	280,665
University of Chicago	93.847	FP052791-A	-	76
University of Colorado	93.847	FY12.601.001	-	49,877
University of Colorado	93.847	FY18.896.005	-	12,313
University of Colorado	93.847	EARLY AWARD	-	40,263
University of Illinois	93.847	087522-16458	-	15,681
University of Iowa	93.847	S00542-01	-	150
University of Iowa	93.847	W001038462	-	2,400
University of Kansas	93.847	ZAS00060	-	13,973
University of Kansas	93.847	ZAY00020	-	134,855
University of Michigan	93.847	3003895026	-	205
University of Michigan	93.847	3004635705	-	27,504
University of Michigan	93.847	SUBK00003528	-	8,830
University of Minnesota	93.847	N005115005	-	12,163
University of North Carolina	93.847	5033713	-	2,669
University of Pennsylvania	93.847	571237	-	18,703
University of Pennsylvania	93.847	571765	-	917
University of Pennsylvania	93.847	574238	-	14,368
University of South Florida	93.847	6163-1051-00-T	-	17,994
University of South Florida	93.847	Clinic Site#14	-	286,121
University of Southern California	93.847	110873538	-	113,523
University of Texas Health Science Center at Houston	93.847	0013642A	-	39,131
University of Texas Health Science Center at Houston	93.847	0013642B	-	1,629
University of Texas M.D. Anderson Cancer Center	93.847	3000970743	-	51,235
University of Texas M.D. Anderson Cancer Center	93.847	3001128225	-	7,674
University of Washington	93.847	UWSC8791	-	30,665
Vanderbilt University Medical Center	93.847	VUMC 57451	-	19,880
Vanderbilt University Medical Center	93.847	VUMC 67777	-	290,528
Virginia Commonwealth University	93.847	PD302920-SC104230	-	86,098
Wake Forest University	93.847	WFUHS 113617	-	11,384
Washington University in St. Louis	93.847	WU-17-129	-	(2,960)
Washington University in St. Louis	93.847	WU-17-132	-	(78)
Subtotal 93.847			3,203,296	44,605,167
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	Direct	3,235,649	32,007,464
Baylor College of Medicine	93.853	7000000742	-	92,357
Baylor College of Medicine	93.853	7000000812	-	26,252
Carnegie Mellon University	93.853	1090439-367147	-	48,647
Carnegie Mellon University	93.853	1090508-385128	-	309,115
Case Western Reserve University	93.853	RES510380	-	24,333
Children's Research Institute	93.853	30003963-19	-	449
Children's Research Institute	93.853	30003963-56	35,524	1,058,050
Cincinnati Children's Hospital Medical Center	93.853	137754	-	50,652
Cleveland Clinic Lerner College of Medicine	93.853	917-SUB	-	59,319
Columbia University	93.853	15(GG010312-15)	-	(957)
Columbia University	93.853	15(GG010312-21)	-	750
Columbia University	93.853	5(GG013057-05)	-	124,343
Duquesne University	93.853	G1900015	-	32,243
Emory University	93.853	61865510-125439	-	10,177
Harvard University	93.853	111178-5088520	-	36,466
Johns Hopkins University	93.853	2003044873	-	654

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Massachusetts General Hospital	93.853	NN102 Sprint MS	-	(17,755)
Massachusetts General Hospital	93.853	NN104	-	20,466
Massachusetts General Hospital	93.853	NN105 STAIR	-	22,554
Massachusetts General Hospital	93.853	NN106	-	4,739
Massachusetts General Hospital	93.853	NN107 FX-LEARN	-	742
Massachusetts General Hospital	93.853	SURE-PD3	-	27,429
Mayo Clinic Jacksonville	93.853	PIT-232483-03	-	1,346
Mayo Clinic Jacksonville	93.853	PMC-224063-01	-	40,343
Medical College of Wisconsin	93.853	5R01 NS070711-09	-	37,367
Northwestern University	93.853	60049288 PITT	-	52,761
Oregon Health & Science University	93.853	1010846 UPITT	-	97,903
ReveraGen BioPharma, Inc.	93.853	EARLY AWARD	-	164,443
Seattle Children's Hospital	93.853	11839SUB	-	43,213
Stanford University	93.853	60851347-44364-A	-	20
Stanford University	93.853	T662055	-	(1,188)
University of California at San Francisco	93.853	10591SC	-	3,010
University of California at San Francisco	93.853	11010SC	-	31,080
University of California at San Francisco	93.853	7872sc	-	240,755
University of California at San Francisco	93.853	9711sc	-	51,175
University of Cincinnati	93.853	010785-119092	-	7,445
University of Miami	93.853	SPC-000708	-	136,651
University of Michigan	93.853	3002348500-SHN	-	15,643
University of Michigan	93.853	3003713780	-	6
University of Michigan	93.853	3004674947-PNT	-	2,790
University of Michigan	93.853	3004752207	-	(1,027)
University of Michigan	93.853	SUBK00005942	-	71,687
University of Michigan	93.853	SUBK00007466	-	275,618
University of Michigan	93.853	SUBK10299CSPR-002	-	10,242
University of Minnesota	93.853	N004037302	-	76,329
University of Southern California	93.853	85743790	-	9,181
University of Virginia	93.853	GB10094.157955	-	7,323
University of Wisconsin	93.853	670K106	-	72,871
University of Wisconsin	93.853	776K182	-	49,527
Subtotal 93.853			3,271,173	35,435,003
Allergy and Infectious Diseases Research	93.855	Direct	6,675,538	53,126,250
Aaron Diamond AIDS Research Center	93.855	A-13-100 AMBROSE	-	16,146
Albany Medical College	93.855	515476-UPITT	-	280,430
Albany Medical College	93.855	515484-UPITT-V.2	-	1,499
Albert Einstein College of Medicine	93.855	310592	-	7
Albert Einstein College of Medicine	93.855	311202/635752	-	8,226
Allegheny Singer Research Institute	93.855	49801609	-	30,076
Benaroya Research Institute at Virginia Mason	93.855	FY181TN126	-	265,882
Benaroya Research Institute at Virginia Mason	93.855	FY181TN154	-	56,944
Benaroya Research Institute at Virginia Mason	93.855	FY181TN229	-	455
Benaroya Research Institute at Virginia Mason	93.855	FY181TN260	-	2,647
Benaroya Research Institute at Virginia Mason	93.855	FY181TN262	-	4,771
Benaroya Research Institute at Virginia Mason	93.855	FY191TN154	-	56,583
Beth Israel Deaconess Medical Center	93.855	01029856	-	10,065
Beth Israel Deaconess Medical Center	93.855	01029857	-	8,348
Beth Israel Deaconess Medical Center	93.855	01029858	-	109
Beth Israel Deaconess Medical Center	93.855	01029859	-	(130)
Beth Israel Deaconess Medical Center	93.855	01060721	-	136,162
Beth Israel Deaconess Medical Center	93.855	01060722	-	60,722
Beth Israel Deaconess Medical Center	93.855	01060723	-	69,671
Beth Israel Deaconess Medical Center	93.855	01060736	-	46,848
Boston College	93.855	5103183-1	-	191,777
Brigham & Women's Hospital	93.855	109926	-	158,501
Brigham & Women's Hospital	93.855	109927	-	158,372
Brigham & Women's Hospital	93.855	110007	-	16,607
Brigham & Women's Hospital	93.855	110230	-	26,310
Brigham & Women's Hospital	93.855	110237	-	3,086
Brigham & Women's Hospital	93.855	110668	-	35,067
Brigham & Women's Hospital	93.855	110668 - A5345 LAB	-	5,225
Brigham & Women's Hospital	93.855	111674	-	82,908
Brigham & Women's Hospital	93.855	112217 CLONAL EXPANS	-	18,916
Brigham & Women's Hospital	93.855	112217 IVR/IUPM	-	31,647
Brigham & Women's Hospital	93.855	112217 QPCR/IUPM	-	5,276
Brigham & Women's Hospital	93.855	113818	-	6,970
Brigham & Women's Hospital	93.855	117360	-	25,981
Brigham & Women's Hospital	93.855	A5314	-	19,729
Brigham & Women's Hospital	93.855	A5315	-	13,587
Brigham & Women's Hospital	93.855	A5321	-	3,715
Brigham & Women's Hospital	93.855	A5342	-	7,861
Brigham & Women's Hospital	93.855	A5354	-	19,835
Brigham & Women's Hospital	93.855	ACTG PROTOCOL	-	81,732

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Brigham & Women's Hospital	93.855	EARLY AWARD	-	25,965
Calder Biosciences, Inc.	93.855	1-R43-AI140941	-	90,089
Children's Hospital of Los Angeles	93.855	RGF010603-E	-	24,359
Columbia University	93.855	08(GG011896-34)	-	2,936
Columbia University	93.855	08(GG011896-49)	-	40,973
Columbia University	93.855	1(GG013567-03)	-	277,695
Columbia University	93.855	11(GG011896-34)	-	91,239
Columbia University	93.855	11(GG011896-49)	-	395,557
Columbia University	93.855	25(GG011896-49)	-	132,391
Columbia University	93.855	3(GG011019-08)	-	1,870
Cornell University	93.855	82337-10919	-	369,475
Duke University	93.855	189925/218470	-	18,747
Duke University	93.855	189925/235058	-	19,082
Duke University	93.855	203-7699	-	12,101
Duke University	93.855	6418	-	171,011
Duke University	93.855	A039043	-	16,942
Duke University	93.855	A039081	-	7,748
Duke University	93.855	SITE#0559	-	3,596
Emory University	93.855	A025496	-	36,884
Emory University	93.855	T772943	-	64,957
Family Health International 360	93.855	HPTN 083	280,011	280,011
Family Health International 360	93.855	PO18002625	-	64,185
George Washington University	93.855	17-M39	-	(9,488)
Harvard University	93.855	124022-5098759	-	10,085
Hospital for Sick Children	93.855	6610100131	-	(108)
Institute for Clinical Research Inc.	93.855	M44-PT-079-1101-4	-	125
Joan & Sanford I. Weill Medical College of Cornell University	93.855	183723-14	-	119,752
Johns Hopkins University	93.855	2002364878	-	155,426
Johns Hopkins University	93.855	2002367032	-	3,069
Johns Hopkins University	93.855	2002367033	-	47,096
Johns Hopkins University	93.855	2002740873	-	125,146
Johns Hopkins University	93.855	2004148022	-	2,210
Johns Hopkins University	93.855	2003649298	-	19,166
Magee-Womens Research Institute & Foundation	93.855	4675	-	(23,858)
Magee-Womens Research Institute & Foundation	93.855	4676	-	(5,348)
Magee-Womens Research Institute & Foundation	93.855	4677	-	(14,803)
Magee-Womens Research Institute & Foundation	93.855	4678	-	(6,607)
Magee-Womens Research Institute & Foundation	93.855	4679	-	(5,565)
Magee-Womens Research Institute & Foundation	93.855	4684	-	233,494
Magee-Womens Research Institute & Foundation	93.855	4685	-	271,336
Magee-Womens Research Institute & Foundation	93.855	4686	-	88,351
Magee-Womens Research Institute & Foundation	93.855	4687	-	74,681
Magee-Womens Research Institute & Foundation	93.855	5593	-	99,265
Magee-Womens Research Institute & Foundation	93.855	7311	-	(21,377)
Magee-Womens Research Institute & Foundation	93.855	9509	-	264,948
Magee-Womens Research Institute & Foundation	93.855	9540	-	121,949
Magee-Womens Research Institute & Foundation	93.855	9542	-	257,871
Magee-Womens Research Institute & Foundation	93.855	9543	-	107,089
Magee-Womens Research Institute & Foundation	93.855	9566	-	296,047
Magee-Womens Research Institute & Foundation	93.855	9569	-	104,942
Magee-Womens Research Institute & Foundation	93.855	9574	-	17,326
Magee-Womens Research Institute & Foundation	93.855	9576	-	353,309
Magee-Womens Research Institute & Foundation	93.855	9608	-	3,741
Magee-Womens Research Institute & Foundation	93.855	9609	-	16,234
Magee-Womens Research Institute & Foundation	93.855	9610	-	12,062
Magee-Womens Research Institute & Foundation	93.855	9611	-	6,960
Magee-Womens Research Institute & Foundation	93.855	9632	-	409,071
Magee-Womens Research Institute & Foundation	93.855	9634	-	124,950
Massachusetts General Hospital	93.855	225488	-	1,514
Massachusetts General Hospital	93.855	229712	-	4,942
New York University	93.855	F8802-02	-	16,756
Oregon Health & Science University	93.855	1011809-UPITT	-	27,904
Rutgers University	93.855	0399	-	10,253
Stanford University	93.855	60819812-107582	-	13,529
State University of New York	93.855	R1001115	-	9,936
Tulane University	93.855	TUL-HSC-555655-17/18	-	17,897
University of Alabama	93.855	000518900-001	-	47,525
University of California	93.855	10737SC	-	87,030
University of California	93.855	9306SC	-	1,233
University of California	93.855	9337SC	-	49,364
University of California	93.855	9471SC	-	4,510
University of California at Berkeley	93.855	00009381	-	299,662
University of California at Los Angeles	93.855	1560 G WA740	-	8,639
University of California at Los Angeles	93.855	1560 G WA890	-	5,969
University of California at Los Angeles	93.855	1560 G WB676	-	15,196
University of California at Los Angeles	93.855	1650 G WA398	-	146,726

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
University of California at Los Angeles	93.855	EARLY AWARD	-	393,473
University of California at San Francisco	93.855	10125SC	-	29
University of California at San Francisco	93.855	10420SC	-	64,575
University of California at San Francisco	93.855	7167SC	-	73,146
University of California at San Francisco	93.855	8971SC	-	69,663
University of California at San Francisco	93.855	9068SC	-	155,720
University of California at San Francisco	93.855	9878SC	-	18,212
University of Florida	93.855	UFDSP00011376	-	226,181
University of Louisville	93.855	ULRF 14-0588B5-01	-	97,126
University of Louisville	93.855	ULRF 14-0588D5-01	-	51,447
University of Louisville	93.855	ULRF-14-0588G4-01	-	4,813
University of Louisville	93.855	ULRF-14-0588G5-01	-	205,305
University of Maryland	93.855	55360-Z0082201	-	230,470
University of Maryland, Baltimore	93.855	1400243G	-	(162)
University of Maryland, Baltimore	93.855	1701055	-	52,104
University of Michigan	93.855	3003868253	-	488,463
University of Missouri	93.855	C00056016-2	-	1,070
University of Pennsylvania	93.855	574339	-	67,368
University of Washington	93.855	UWSC10069	-	121,811
University of Wisconsin	93.855	686K405	-	23,130
Vanderbilt University Medical Center	93.855	VUMC40874	-	273,296
Washington University in St. Louis	93.855	WU-19-245	-	27,747
Subtotal 93.855			6,955,549	63,914,745
Biomedical Research and Research Training	93.859	Direct	5,381,794	32,584,407
Carnegie Mellon University	93.859	1090441-352542	-	42,891
Case Western Reserve University	93.859	RES512607	-	1,571
Fox Chase Chemical Diversity Center	93.859	R42GM112516-PITT	-	98,245
Magee-Womens Research Institute & Foundation	93.859	3624	-	106,842
Magee-Womens Research Institute & Foundation	93.859	3625	-	186,534
MS2 Array, LLC	93.859	1383869690A1	-	31,684
North Carolina State University	93.859	2017-2356-02	-	66,100
Ohio State University	93.859	60057530	-	13,545
Ohio State University	93.859	60062579	-	21,385
Princeton University	93.859	SUB0000071	-	163,426
Princeton University	93.859	SUB0000140	-	158,178
Research Institute at Nationwide Children's Hospital	93.859	700006-0518-00	-	(1,351)
Stanford University	93.859	60831399-110802	-	6,184
State University of New York	93.859	1127906-72787	-	13,361
State University of New York	93.859	72787	-	(2,044)
Texas A&M University	93.859	06-M1703427	-	12,363
TruCode Gene Repair	93.859	5R44GM108187-04	-	(7,430)
TruCode Gene Repair	93.859	5R44GM108187-06	-	123,597
University of California	93.859	201302314-04	-	8,379
University of California at San Francisco	93.859	10503SC	-	38,051
University of Cincinnati	93.859	011843-002	-	39,566
University of Colorado	93.859	FY15.652.001	-	218,514
University of Connecticut	93.859	122299	-	6,805
University of Maryland, Baltimore	93.859	1701462	-	1,637
University of Massachusetts	93.859	OSP2017045	-	177,950
University of Massachusetts	93.859	WA00473946OSO201704	-	(21,005)
University of Miami	93.859	SPC-000421	33,236	31,193
University of Pennsylvania	93.859	566256	-	5,491
University of Pennsylvania	93.859	569058	-	14
University of Wisconsin	93.859	881K252	-	25,979
Washington University in St. Louis	93.859	WU-16-84	-	(12)
Subtotal 93.859			5,415,030	34,152,050
Child Health and Human Development Extramural Research	93.865	Direct	966,503	8,507,018
Albert Einstein Healthcare Network	93.865	4934	-	15,713
Arizona State University	93.865	14-453	-	55,263
Arizona State University	93.865	17-014	-	68,849
Baebies, Inc.	93.865	RESEARCH AGREEMENT	-	54,776
California Pacific Medical Center Research Institute	93.865	280201015-S220	-	1,057,534
California Pacific Medical Center Research Institute	93.865	EARLY AWARD	-	24,836
Carnegie Mellon University	93.865	109500-379459	-	69,162
Children's Hospital of Philadelphia	93.865	3210610519	-	15,823
Cornell University	93.865	16091646-UTAH	-	(4,638)
Cornell University	93.865	182878	-	4,010
Gaia Medical Institute	93.865	SALIVA NCDT	-	71,550
George Washington University	93.865	S-MFM1718-JB15	100,264	137,202
George Washington University	93.865	S-MFM1819-JB15	-	32,118
Indiana University	93.865	IN4685314UPITT	-	14,586
Magee-Womens Research Institute & Foundation	93.865	1419	-	(251)
Magee-Womens Research Institute & Foundation	93.865	1420	-	1,108
Magee-Womens Research Institute & Foundation	93.865	1421	-	(5,063)

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Magee-Womens Research Institute & Foundation	93.865	1422	-	92,882
Magee-Womens Research Institute & Foundation	93.865	1423	-	79,291
Magee-Womens Research Institute & Foundation	93.865	1424	-	221,961
Magee-Womens Research Institute & Foundation	93.865	1426	-	179,835
Magee-Womens Research Institute & Foundation	93.865	2616	-	167,025
Magee-Womens Research Institute & Foundation	93.865	2623	-	(17,881)
Magee-Womens Research Institute & Foundation	93.865	2624	-	197,308
Magee-Womens Research Institute & Foundation	93.865	2627	-	36,802
Magee-Womens Research Institute & Foundation	93.865	2628	-	18,385
Magee-Womens Research Institute & Foundation	93.865	2638	-	3,104
Magee-Womens Research Institute & Foundation	93.865	2639	-	162,308
Magee-Womens Research Institute & Foundation	93.865	2640	-	(15,886)
Magee-Womens Research Institute & Foundation	93.865	2645	-	9,284
Magee-Womens Research Institute & Foundation	93.865	2649	-	167,064
Magee-Womens Research Institute & Foundation	93.865	2651	-	6,240
Magee-Womens Research Institute & Foundation	93.865	3485	-	(3,409)
Magee-Womens Research Institute & Foundation	93.865	3490	-	29,045
Magee-Womens Research Institute & Foundation	93.865	3495	-	238,311
Magee-Womens Research Institute & Foundation	93.865	3499	-	79,720
Magee-Womens Research Institute & Foundation	93.865	3503	-	203,276
Magee-Womens Research Institute & Foundation	93.865	3618	-	(59,307)
Magee-Womens Research Institute & Foundation	93.865	3622	-	82,126
Magee-Womens Research Institute & Foundation	93.865	3640	-	2,767
Magee-Womens Research Institute & Foundation	93.865	3641	-	11,013
Magee-Womens Research Institute & Foundation	93.865	3642	-	15,860
Magee-Womens Research Institute & Foundation	93.865	3643	-	10,185
Magee-Womens Research Institute & Foundation	93.865	3646	-	41,271
Magee-Womens Research Institute & Foundation	93.865	3647	-	123,498
Magee-Womens Research Institute & Foundation	93.865	3648	-	124,901
Magee-Womens Research Institute & Foundation	93.865	3649	-	84,041
Magee-Womens Research Institute & Foundation	93.865	4017	-	16,846
Magee-Womens Research Institute & Foundation	93.865	4022	-	3,162
Magee-Womens Research Institute & Foundation	93.865	4023	-	(588)
Magee-Womens Research Institute & Foundation	93.865	4027	-	20,397
Magee-Womens Research Institute & Foundation	93.865	4028	-	105,682
Magee-Womens Research Institute & Foundation	93.865	4029	-	107,998
Magee-Womens Research Institute & Foundation	93.865	4034	-	21,256
Magee-Womens Research Institute & Foundation	93.865	4111	-	175,803
Magee-Womens Research Institute & Foundation	93.865	4709	-	806
Magee-Womens Research Institute & Foundation	93.865	5251	-	(126)
Magee-Womens Research Institute & Foundation	93.865	5259	-	74,733
Magee-Womens Research Institute & Foundation	93.865	5261	-	33,098
Magee-Womens Research Institute & Foundation	93.865	5570	-	7,431
Magee-Womens Research Institute & Foundation	93.865	5588	-	21,269
Magee-Womens Research Institute & Foundation	93.865	6214	-	237,386
Magee-Womens Research Institute & Foundation	93.865	6223	-	31,636
Magee-Womens Research Institute & Foundation	93.865	6353	-	(19,183)
Magee-Womens Research Institute & Foundation	93.865	6370	-	135,585
Magee-Womens Research Institute & Foundation	93.865	6929	-	56,475
Magee-Womens Research Institute & Foundation	93.865	7024	-	91,564
Magee-Womens Research Institute & Foundation	93.865	7532	-	176,104
Magee-Womens Research Institute & Foundation	93.865	8848	-	(49,054)
Magee-Womens Research Institute & Foundation	93.865	8849	-	(3,061)
Medical University of South Carolina	93.865	MUSC16-062-88465	-	(270)
Medical University of South Carolina	93.865	MUSC18-064-8B463	-	9,133
New York University	93.865	F4320-01	-	449,274
Next Health, Inc.	93.865	R44HD085702	-	75,377
NuRelm, Inc.	93.865	1R41HD090813-01-1	-	39,879
Oregon Health & Science University	93.865	9009028_UPitt	-	677
Oregon State University	93.865	P0446A-B	-	20,708
Research Institute at Nationwide Children's Hospital	93.865	700171-0719-00	-	19,936
Seattle Children's Hospital	93.865	11116SUB	-	31,744
Seattle Children's Hospital	93.865	11456SUB	-	194
Simbex, LLC	93.865	SIMBEX-008	-	46,717
University of Alabama	93.865	000509380-SP004-006	-	21,939
University of Chicago	93.865	FP059400-A	-	19,524
University of Michigan	93.865	3004685879	-	56,783
University of Minnesota	93.865	P006341401	-	4,746
University of Nebraska Medical Center	93.865	34-5321-2003-009	-	718
University of Nebraska Medical Center	93.865	34-5321-2003-010	-	1,455
University of Texas Southwestern Medical Center	93.865	GMO 190901	-	21,463
University of Utah	93.865	10035609-UPMC	-	23,278
Washington University in St. Louis	93.865	WU-17-283	-	13,714
Washington University in St. Louis	93.865	WU-18-171	-	2,379
Washington University in St. Louis	93.865	WU-19-131	-	11,513
Yale University	93.865	M14A11869(A09764)	-	34,554

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Subtotal 93.865			1,066,767	14,561,270
Aging Research	93.866	Direct	6,208,806	45,796,261
Albert Einstein College of Medicine	93.866	311225/P0675432	-	6,726
Boston University	93.866	4500002667	-	111,095
Brigham & Women's Hospital	93.866	111014	-	117,036
California Pacific Medical Center Research Institute	93.866	280201009-S197	-	17,543
California Pacific Medical Center Research Institute	93.866	280201018-S234	-	10,762
California Pacific Medical Center Research Institute	93.866	280201019-S226	-	21,781
Columbia University	93.866	2(GG010390-14)	-	41,340
Columbia University	93.866	7(GG012955-01)	-	(8,312)
Columbia University	93.866	7(GG012955-02)	-	61,373
Crossroads Consulting, LLC	93.866	NIHSBIR2-01	-	292,179
Dartmouth College	93.866	R1031	-	38,954
Hennepin Healthcare Research Institute	93.866	APREE CLINICAL	-	44,181
Hennepin Healthcare Research Institute	93.866	XT-1715-02	-	12,115
Indiana University	93.866	IN-4687304-UP	-	2,131
Indiana University	93.866	EARLY AWARD	-	35,177
Joan & Sanford I. Weill Medical College of Cornell University	93.866	183997	-	37,137
Johns Hopkins University	93.866	2003451222	-	5,356
Johns Hopkins University	93.866	2003469191	-	65,225
Johns Hopkins University	93.866	2003658576	-	16,127
Magee-Womens Research Institute & Foundation	93.866	5246_PITT	-	62,627
Magee-Womens Research Institute & Foundation	93.866	6591	-	177,546
Massachusetts General Hospital	93.866	232963	-	37,770
Massachusetts Institute of Technology	93.866	S4692-PO-271461	-	13,417
Northern California Institute for Research and Education	93.866	WEI2015-09	-	68,185
Northwestern University	93.866	60040682UP	-	41,008
Northwestern University	93.866	60048330 PITT	-	57,810
Northwestern University	93.866	EARLY AWARD	-	6,490
Rand Corporation	93.866	9920180009	-	19,804
Scripps Research Institute	93.866	527018/527019/527021	-	(202)
St. Joseph's Hospital and Medical Center	93.866	32144PITT	-	113,027
University of California at San Francisco	93.866	10480SC	-	176,630
University of Delaware	93.866	51725	-	203,436
University of Florida	93.866	UFDSP00010686	-	4,581
University of Florida	93.866	UFDSP00011846	-	17,806
University of Illinois	93.866	17218	-	42,789
University of Kansas	93.866	ZAN000000	-	85,190
University of Maryland, Baltimore	93.866	1100627A REQUEST1904	-	22,999
University of Massachusetts	93.866	OSP2018118	-	6,246
University of Miami	93.866	SPC-000423	-	6,755
University of Michigan	93.866	SUBK00003635	-	103,034
University of Michigan	93.866	SUBK00003641	-	3,010
University of Minnesota	93.866	P007422502	-	18,079
University of New South Wales	93.866	RG172507	-	28,991
University of Southern California	93.866	105715756	-	12,026
University of Southern California	93.866	75682029/50699687	-	26,044
University of Southern California	93.866	79635068	-	100,766
University of Utah	93.866	10042502-14	-	(521)
University of Washington	93.866	BPO32906	-	23,415
University of Washington	93.866	UWSC10962	-	4,804
University of Washington	93.866	UWSC11052	-	5,991
University of Washington	93.866	EARLY AWARD	-	71,913
Wake Forest University	93.866	WFLUHS 552702	-	102,742
Washington University in St. Louis	93.866	WU-15-187-MOD-3	-	144,084
Subtotal 93.866			6,208,806	48,532,479
Vision Research	93.867	Direct	486,741	7,770,241
Carnegie Mellon University	93.867	1090413-371445	-	51,797
Carnegie Mellon University	93.867	1090458-398342	-	26,774
Carnegie Mellon University	93.867	1090501-380395	-	22,415
Children's Hospital of Boston	93.867	GENFD0001490474	-	16,693
Children's Hospital of Philadelphia	93.867	3209850817	-	79
Columbia University	93.867	1(GG013023-01)	-	40,280
Columbia University	93.867	1(GG02175-01)	-	10
JAEB Center for Health Research, Inc.	93.867	PEDIG	-	563
Johns Hopkins University	93.867	2003070657	-	(6,431)
Johns Hopkins University	93.867	2003816234	-	37,428
New York University	93.867	17-A0-00-006701-01	-	117,147
Schepens Eye Research Institute	93.867	533027	-	13,507
Tufts University	93.867	HH4034	-	31,146
University of California San Diego	93.867	86728016	-	(9,504)
University of Mississippi Medical Center	93.867	66663150316UP	-	38,158
University of Southern California	93.867	100927092	-	141,198
University of Texas at Austin	93.867	UTA17-001015	-	38,068

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
West Virginia University	93.867	13-215-UP	-	10,579
Yale University	93.867	GR104143-CON80001549	-	45,931
Subtotal 93.867			486,741	8,386,079
Medical Library Assistance	93.879	Direct	632,201	5,090,494
Brigham & Women's Hospital	93.879	111377	-	47,072
Indiana University	93.879	IN4688956PITT	-	14,670
University of Utah	93.879	10039576-10	-	7,000
Subtotal 93.879			632,201	5,159,236
International Research and Research Training	93.989	Direct	9,202	849,127
Other National Institutes of Health:				
Allergy and Infectious Diseases	93.000	Direct	253,741	841,431
Cancer	93.000	Direct	-	46,192
Child Health	93.000	Direct	-	24,680
Clinical Center	93.000	Direct	-	18,242
Drug Abuse	93.000	Direct	4,127	1,463,131
Heart, Lung & Blood	93.000	Direct	-	103,370
Aethlon Medical, Inc.	93.000	0055757	-	29,018
Boston University	93.000	4500002653	-	15,601
Cancer Targeted Technology, LLC	93.000	CTT-UPITT09302015	-	983
Children's Hospital of Philadelphia	93.000	20026676-RSUB	-	5,535
Children's Hospital of Philadelphia	93.000	962265 - RSUB	-	17,163
Children's Hospital of Philadelphia	93.000	962543 - RSUB	-	74,983
Children's Hospital of Philadelphia	93.000	962687	-	756,103
Duke University	93.000	SITE#UPT99	-	10,150
Ecog-Acrin Medical Research Foundation, Inc.	93.000	EARLY AWARD	-	6,285
Emmes Corporation	93.000	AREDS2	-	13,194
Fred Hutchinson Cancer Research Center	93.000	EARLY AWARD	-	1,257
Institute for Transfusion Medicine	93.000	HHSN26800003	-	89,878
Leidos Biomedical Research, Inc.	93.000	12XS547	-	426,883
Leidos Biomedical Research, Inc.	93.000	16X018	-	145,162
Leidos Biomedical Research, Inc.	93.000	16X116	-	1,407,904
Leidos Biomedical Research, Inc.	93.000	16X162Q TASK 01	-	23,465
Magee-Womens Research Institute & Foundation	93.000	4537	-	1,605
Magee-Womens Research Institute & Foundation	93.000	4538	-	5,257
Magee-Womens Research Institute & Foundation	93.000	5523	-	38,835
Magee-Womens Research Institute & Foundation	93.000	5595	-	207,683
Magee-Womens Research Institute & Foundation	93.000	6753	-	22,953
Magee-Womens Research Institute & Foundation	93.000	9153	-	69,245
Mayo Clinic Rochester	93.000	MCR-0105-CPN	-	13,812
Mayo Clinic Rochester	93.000	MCR-0125-CPN	-	4,962
Mayo Clinic Rochester	93.000	MCR-0135-CPN	-	15,696
Mayo Clinic Rochester	93.000	MCR-0138-CPN	-	126,000
Mimetas US, Inc.	93.000	0058588	-	247,373
Northwestern University	93.000	SP0016040 60050361	-	3,474
Northwestern University	93.000	SP0016040 60050362	-	9,681
Northwestern University	93.000	SP0033779 60044358	-	7,301
Northwestern University	93.000	SP0033779 60047201	-	42,488
Northwestern University	93.000	SP003377960044358CHP	-	15,573
NSABP Foundation, Inc.	93.000	EARLY AWARD	-	5,028
Obatala Sciences, Inc.	93.000	UPITT01	-	9,492
Ohio State University	93.000	60062134	-	83,917
Rockland Immunochemicals, Inc.	93.000	G1051	-	(909)
Social & Scientific Systems, Inc.	93.000	CRB-SSS-S-15-004662	-	15,781
Social & Scientific Systems, Inc.	93.000	PHR-SSS-S-16-005010	-	1,050
University of Alabama	93.000	000406190-010	-	4,435
University of Alabama	93.000	000406257-027	-	4,027
University of Alabama	93.000	000406291-007	-	96,750
University of Alabama	93.000	000500918-T011-008	-	37,511
University of Alabama	93.000	000500918-T018-002	-	3,771
University of Alabama	93.000	000500918-T013-009	-	16,125
University of Alabama	93.000	000500918-T016-006	-	1,354
University of Alabama	93.000	000509729-002	-	4,475
University of Michigan	93.000	3001890361	-	6,717
University of Michigan	93.000	3002796441	-	(2,598)
University of Michigan	93.000	SUBK-C1487	-	64,056
University of Minnesota	93.000	N006462001	-	224,657
Vanderbilt University Medical Center	93.000	VUMC56485	-	(50,370)
Vanderbilt University Medical Center	93.000	VUMC65662	-	275,346
Westat, Inc.	93.000	6426-S08	-	6,868
Westat, Inc.	93.000	6473-03-S002	-	1,964
Subtotal 93.000			257,868	7,161,995
Total National Institutes of Health			67,639,926	563,905,019

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Substance Abuse and Mental Health Services Administration:				
Allegheny County	93.104	211450	-	122,901
Luzerne County	93.104	CARE INITIATIVE	-	101,856
Luzerne County	93.104	SYSTEM OF CARE	-	34,938
Subtotal 93.104			-	259,695
University of Wisconsin	93.239	877K866	-	11,774
Allegheny Singer Research Institute	93.243	45100609	-	81,403
CMSU Counties of Central Pennsylvania	93.243	1H79 TI081289-01	-	57,661
Commonwealth of Pennsylvania	93.243	4300534203	-	537
Westmoreland Drug and Alcohol Commission, Inc.	93.243	0001	-	148,220
Subtotal 93.243			-	287,821
Other Substance Abuse and Mental Health Services Administration	93.000	Direct	-	19,613
University of Pittsburgh Medical Center	93.000	4100079078	-	47,165
Subtotal 93.000			-	66,778
Total Substance Abuse and Mental Health Services Administration			-	626,068
DHHS Other:				
Other DHHS	93.000	Direct	-	56,538
Johns Hopkins University	93.088	2002798111	-	1,510
Total DHHS Other			-	58,048
Total Department of Health and Human Services			71,433,328	587,380,904
Department of Defense:				
Advanced Research Projects Agency:				
Rutgers University	12.431	8178	46,926	333,466
HRL Laboratories, LLC	12.910	12105-301700-DS	-	2
Other Advanced Research Projects Agency	12.000	Direct	-	295,709
University of Notre Dame	12.000	208063UP	-	426
Subtotal 12.000			-	296,135
Total Advanced Research Projects Agency			46,926	629,603
Defense Health Agency:				
MD Consulting, LLC.	12.000	HT0014-16-C-0013	-	55,534
Total Defense Health Agency			-	55,534
Defense Threat Reduction Agency:				
Scientific Research - Combating Weapons of Mass Destruction	12.351	Direct	391,807	2,589,948
University of Texas at Austin	12.351	UTA15-000015	-	161,267
Washington University in St. Louis	12.351	WU-15-243	-	138,008
Subtotal 12.351			391,807	2,889,223
Total Defense Threat Reduction Agency			391,807	2,889,223
Department of the Air Force:				
Basic and Applied Scientific Research	12.300	Direct	-	312
Air Force Defense Research Sciences Program	12.800	Direct	112,221	478,687
Carnegie Mellon University	12.800	1150141-357109	-	243,607
Washington University in St. Louis	12.800	WU-17-190	-	49,947
Subtotal 12.800			112,221	772,241
Booz Allen Hamilton Inc.	12.000	S900447BAH	-	226,384
Engineering Research and Consulting, Inc.	12.000	PS170061	-	43,318
National Center for Defense Manufacturing & Machining	12.000	20150276	6,988	(35,327)
Triton Systems, Inc.	12.000	TSI-2470-16-104758	-	43,553
Triton Systems, Inc.	12.000	TSI-2482-16-105706	-	33,017
Subtotal 12.000			6,988	310,945
Total Department of the Air Force			119,209	1,083,498
Department of the Army:				
Research on Chemical and Biological Defense	12.360	Direct	-	1,080,389

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Military Medical Research and Development	12.420	Direct	2,761,661	18,203,908
Brigham & Women's Hospital	12.420	112798	-	19,261
Case Western Reserve University	12.420	RES512532	-	117,687
Children's Hospital of Boston	12.420	W81XWH-17-1-0532	-	8,878
Duquesne University	12.420	G1700020	-	14,179
Georgia Institute of Technology	12.420	RJ092-G1	-	48,425
Henry M. Jackson Foundation	12.420	2506	-	32,589
Henry M. Jackson Foundation	12.420	4312	-	117,438
Johns Hopkins University	12.420	PAIN STUDY	-	358
Magee-Womens Research Institute & Foundation	12.420	6216	-	39,411
Magee-Womens Research Institute & Foundation	12.420	6806	-	69,620
Maine Medical Center	12.420	111233-010XBURGH DOD	-	29,541
Memorial Sloan Kettering Cancer Center	12.420	BD525373	-	16,100
Minnesota Veterans Medical Research and Education Foundation	12.420	MVMREF-2017-001	-	2,135
Ohio State University	12.420	60065096	-	17,759
Oregon Health & Science University	12.420	1005470_UPITT	-	83,021
Oregon Health & Science University	12.420	1008339_UPITT	-	283
St. Joseph's Hospital and Medical Center	12.420	32689PITT	-	482,913
TheraNova, LLC	12.420	CRD-01-1150	-	47,729
University of Alabama	12.420	000507860-006	-	77,802
University of California at San Francisco	12.420	10043sc	-	161,759
University of Cincinnati	12.420	010376-002	-	57,607
University of Colorado	12.420	FY18.576.003	-	22,421
University of Michigan	12.420	3003179986	-	109,762
University of Michigan	12.420	3005327478	-	21,277
University of Michigan	12.420	EARLY AWARD	-	19,413
University of New Mexico	12.420	3RDE3	-	34,209
University of Pittsburgh Medical Center (UPMC)	12.420	19641	-	24,509
University of Virginia	12.420	GG12134.159875	-	93,663
Wake Forest University	12.420	WUHS 440109	-	1,901
Wake Forest University	12.420	WUHS 440271	188,138	188,138
Wake Forest University	12.420	WUHS 441000B GU-00	-	91,746
Wake Forest University	12.420	WUHS 441022 SR-12	-	71,323
Wake Forest University	12.420	WUHS 441037 CTA-07	62,098	103,164
Wake Forest University	12.420	WUHS 441053 ER-03	-	132,051
Wake Forest University	12.420	WUHS 441055 ER-05	-	40,428
Wake Forest University	12.420	WUHS 441056 ER-06	-	88,128
Wake Forest University	12.420	WUHS 441063 ER-13	-	145,365
Wake Forest University	12.420	WUHS 441075 CF-05	77,618	141,605
Wake Forest University	12.420	WUHS 441077 CF-07	-	268,012
Wake Forest University	12.420	WUHS 441079 CF-09	123,772	251,733
Wake Forest University	12.420	WUHS 441083 CF-13	-	12,067
Subtotal 12.420			<u>3,213,287</u>	<u>21,509,318</u>
Basic Scientific Research	12.431	Direct	1,096,523	2,209,556
Carnegie Mellon University	12.431	1130208-378915	-	148,722
Carnegie Mellon University	12.431	1130220-399314	-	5,163
Princeton University	12.431	SUB00000081	-	264,963
University of California at Santa Barbara	12.431	KK1714	-	191,273
University of Michigan	12.431	3004628718	-	228,040
Subtotal 12.431			<u>1,096,523</u>	<u>3,047,717</u>
Research and Technology Development	12.910	Direct	182,405	1,030,218
Other Department of the Army	12.000	Direct	4,913,560	8,179,532
Abzyme Therapeutics LLC	12.000	PO AB1281	-	90,654
BAE Systems	12.000	1001524	-	731,646
Battelle Memorial Institute	12.000	712468	-	878,845
Carnegie Mellon University	12.000	1042673-379177	-	(5,835)
Chromologic LLC	12.000	MSA-162000	-	34,984
Intelligent Automation, Inc.	12.000	2375-1	-	30,000
Johns Hopkins University	12.000	2002233422	-	7,941
Johns Hopkins University	12.000	2004207953	-	15,070
Johns Hopkins University	12.000	W81XWH-17-2-0032	-	2,771
Lynntech, Inc.	12.000	ARM-080	-	239,820
Materials Sciences Corporation	12.000	12291-SD44	-	15,000
Materials Sciences Corporation	12.000	12530-SD45	-	67,365
Materials Sciences Corporation	12.000	9691-SD36	-	119,070
University of California at San Francisco	12.000	11291SC	-	191,746
University of California at Santa Barbara	12.000	KK1815	-	84,533
University of Cincinnati	12.000	010580-002	-	(1,866)
Vivonics, Inc.	12.000	2128-S008	-	12,877
Subtotal 12.000			<u>4,913,560</u>	<u>10,694,153</u>
Total Department of the Army			<u>9,405,775</u>	<u>37,361,795</u>

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Department of the Navy:				
Basic and Applied Scientific Research	12.300	Direct	171,281	3,488,803
Carnegie Mellon University	12.300	1141302-385701	-	128,648
University of California at Los Angeles	12.300	0980 G SB337	-	436
University of Virginia	12.300	GG11737 146385	-	(16,440)
University of Virginia	12.300	GG11764 146900	-	118,824
Subtotal 12.300			171,281	3,720,271
Research and Technology Development	12.910	Direct	-	84,081
Other Department of the Navy	12.000	Direct	50,000	770,090
Directed Vapor Technologies International, Inc.	12.000	D0149-02	-	8,739
KCF Technologies, Inc.	12.000	SBIR PHASE I	-	10,000
Materials Sciences Corporation	12.000	12985-AR01	-	33,843
Subtotal 12.000			50,000	822,672
Total Department of the Navy			221,281	4,627,024
Space and Naval Warfare Systems Command:				
Johns Hopkins University	12.910	2004129650	-	302,593
Paradromics Inc.	12.000	NESD-001	-	352,806
Total Space and Naval Warfare Systems Command			-	655,399
Total Department of Defense			10,184,998	47,302,076
Other Agencies:				
Agency for International Development:				
JSI Research & Training Institute, Inc.	98.001	APC-GM-0068	-	(8,163)
JSI Research & Training Institute, Inc.	98.001	APC-GM-0107	-	387,108
Subtotal 98.001			-	378,945
Other Agency for International Development	98.000	Direct	424,347	944,189
Magee-Womens Research Institute & Foundation	98.000	5599	-	(2)
Magee-Womens Research Institute & Foundation	98.000	7317	-	(4,625)
Magee-Womens Research Institute & Foundation	98.000	7530	-	3,772
National Opinion Research Center	98.000	7554.UPITT.01-048	-	3,032
RTI International	98.000	3-312-0214177-51820L	-	51,426
Subtotal 98.000			424,347	997,792
Total Agency for International Development			424,347	1,376,737
Department of Agriculture:				
US Civilian Research & Development Foundation	10.001	DAA2-15-61217-1	-	(2,644)
University of Michigan	10.310	SUBK00008917	-	19,207
Total Department of Agriculture			-	16,563
Department of Commerce:				
Cluster Grants	11.020	Direct	13,645	135,191
Science, Technology, Business and/or Education Outreach	11.620	Direct	-	15,119
Total Department of Commerce			13,645	150,310
Department of Education:				
International Research and Studies	84.017	Direct	-	94,186
Education Research, Development and Dissemination	84.305	Direct	115,819	741,793
Harvard University	84.305	108129-5076562	-	82,042
Pennsylvania State University	84.305	5513-UP-IES-0403	-	76,610
Purdue University	84.305	19100064-008	-	78,611
Temple University	84.305	259589-PITT	-	23,807
University of North Carolina	84.305	5107775	-	54,819
University of Oregon	84.305	224810B	-	183,494
Subtotal 84.305			115,819	1,241,176
University of North Carolina	84.334	9012343-119	-	76,083
Allegheny Intermediate Unit	84.366	PDE MSP TITLE IIB	-	11,926
Total Department of Education			115,819	1,423,371
Department of Energy:				
Office of Science Financial Assistance Program	81.049	Direct	287,350	3,294,119
Central Michigan University	81.049	F63460	-	242,122
Electroninks Inc.	81.049	DOE2018-2019	-	87,277
Harvard University	81.049	167974-5106940	-	111,482

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Luna Innovations Incorporated	81.049	3495.02/PITT	-	1,079
Northwestern University	81.049	SP0027267PROJ0007139	-	112,338
University of Minnesota	81.049	A007230201	-	58,037
UT-Battelle, LLC	81.049	4000074247	-	(19,673)
Subtotal 81.049			287,350	3,886,781
Conservation Research and Development	81.086	Direct	-	535,489
Giner, Inc.	81.087	Membrane Fuel Cells	-	176,421
Rapid Advancement Process Intensification Deployment Manufact Instit	81.087	05.8	-	320,477
Rapid Advancement Process Intensification Deployment Manufact Instit	81.087	06-7	-	114,039
Rapid Advancement Process Intensification Deployment Manufact Instit	81.087	6.1	-	60,664
University of Central Florida	81.087	16226073-UP	-	6,622
University of Central Florida	81.087	16226104-09	-	58,566
Subtotal 81.087			-	736,789
Fossil Energy Research and Development	81.089	Direct	227,346	1,180,599
Gas Technology Institute	81.089	AGREEMENT NO. S876	-	124,705
Pennsylvania State University	81.089	5955-UP-DOE-6825	-	36,953
Pennsylvania State University	81.089	5957-UP-DOE-6825	-	48,771
Pennsylvania State University	81.089	5987-UP-DOE-6825	-	7,912
Subtotal 81.089			227,346	1,398,940
Nuclear Energy Research, Development and Demonstration	81.121	Direct	47,544	325,155
University of Houston	81.121	R-19-0010	-	29,155
Utah State University	81.121	200658-604	-	418,015
Westinghouse Electric Company, LLC	81.121	4500666345	-	(547)
Subtotal 81.121			47,544	771,778
Clarkson University	81.122	100906-1	-	51,017
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 204	-	(5,765)
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 205	-	366
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 209	-	6,951
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 210	-	6,780
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 211	-	68,512
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 212U	-	27,915
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 213	-	10,829
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 214	-	47,543
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 216	-	26,636
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 217	-	33,750
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 218	-	31,050
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 220	-	51,116
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 221	-	15,000
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 222	-	12,591
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 223	-	12,992
AECOM Energy and Construction, Incorporated	81.000	TASK RELEASE NO 224	-	8,200
Battelle Energy Alliance, LLC	81.000	0207637	-	129,654
Battelle Energy Alliance, LLC	81.000	191828	-	118,640
Battelle Energy Alliance, LLC	81.000	206932	-	63,981
Battelle Energy Alliance, LLC	81.000	211001	-	59,634
Battelle Energy Alliance, LLC	81.000	213209	-	23,927
Battelle Energy Alliance, LLC	81.000	215245	-	39,146
Battelle Memorial Institute	81.000	338678	-	40,026
Battelle Memorial Institute	81.000	455499	-	4,500
Battelle Memorial Institute	81.000	734574	-	25,607
Brookhaven Science Associates, LLC	81.000	293354	-	5,033
Brookhaven Science Associates, LLC	81.000	359437	-	25,435
Fermi Research Alliance, LLC	81.000	653793	-	20,421
Fluor Marine Propulsion, LLC	81.000	128753	-	102,031
KeyLogic Systems, Inc.	81.000	5000-017	-	6,215
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 1	-	34,256
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 10	-	27,015
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 11	-	502
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 12	-	49,129
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 13	-	27,405
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 14	-	5,006
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 2	-	6,851
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 3	-	10,002
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 5	-	17,874
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 6	-	10,005
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 7	-	10,005
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 8	-	21,881
Leidos Biomedical Research, Inc.	81.000	P010220918 TASK 9	-	9,163
Los Alamos National Security, LLC	81.000	329287	-	646
Rapid Advancement Process Intensification Deployment Manufact Instit	81.000	EARLY AWARD	-	104,664

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
REMADE Institute	81.000	SA-19-05	-	4,350
Sandia Corporation, a subsidiary of Lockheed Martin	81.000	1967875	-	6,000
Triad National Security, LLC	81.000	439301	-	160,829
UChicago Argonne, LLC	81.000	9F-60178	-	15,085
University of California	81.000	7374238	-	57,966
Subtotal 81.000			-	1,597,350
Total Department of Energy			562,240	8,978,144
Department of Housing and Urban Development:				
Municipality of Penn Hills	14.218	PH STABILIZATION	-	3,790
Total Department of Housing and Urban Development			-	3,790
Department of the Interior:				
Commonwealth of Pennsylvania	15.250	4400011482	47,227	242,025
Pennsylvania State University	15.805	5890-UP-USGS-0079	-	18,350
U.S. Geological Survey Research and Data Collection	15.808	Direct	-	8,471
Total Department of the Interior			47,227	268,846
Department of Justice:				
National Institute of Justice Research, Evaluation, and Development Project Grants	16.560	Direct	230,216	802,619
Criminal Justice Research and Development Graduate Research Fellowships	16.562	Direct	-	11,863
PA Commission on Crime and Delinquency	16.738	2014/16-JG98/SS28121	-	77,631
PA Commission on Crime and Delinquency	16.812	SR/DP-04/ST-27520	-	21,863
Total Department of Justice			230,216	913,976
Department of Transportation:				
National Academy of Sciences	20.200	HR 01-58	10,121	54,403
University of Cincinnati	20.200	010507-003	-	10,248
Subtotal 20.200			10,121	64,651
Commonwealth of Pennsylvania	20.205	4300455471/ WO 009	-	17,409
Commonwealth of Pennsylvania	20.205	4400011482/ WO 013	-	(10)
Commonwealth of Pennsylvania	20.205	4400011482/ WO 014	-	60,770
Commonwealth of Pennsylvania	20.205	4400011482/ WO 015	-	87,117
Commonwealth of Pennsylvania	20.205	4400018535/ WO 016	-	179,054
Commonwealth of Pennsylvania	20.205	4400018535/ WO 018	-	48,236
Commonwealth of Pennsylvania	20.205	4400018535/ WO 019	-	101,473
Subtotal 20.205			-	494,049
Minnesota Department of Transportation	20.000	1003327 WORK ORDER 2	-	11,777
Minnesota Department of Transportation	20.000	1003327 WORK ORDER 3	-	32,054
National Academy of Sciences	20.000	TRANSIT-86	-	22,604
National Association of EMS	20.000	SUB-DTNH2215C00029	-	78,626
Pathway Accessibility Solutions, Inc.	20.000	ACCESSPATH	-	475
Thornton Tomasetti, Inc.	20.000	TTWAS17.01-PITT	-	8,906
Subtotal 20.000			-	154,442
Total Department of Transportation			10,121	713,142
Department of Veterans Affairs:				
Specially Adapted Housing Assistive Technology Grant Program	64.051	Direct	-	66,259
Other Department of Veterans Affairs	64.000	Direct	-	5,767,267
Western Interstate Commission for Higher Education	64.000	SUICIDE PREVENTION	-	43,287
Subtotal 64.000			-	5,810,554
Total Department of Veterans Affairs			-	5,876,813
Environmental Protection Agency:				
Vanderbilt University	66.509	UNIV58986	-	235,022
Drexel University	66.511	860305	-	9,251
Other Environmental Protection Agency	66.000	Direct	-	58,939
Total Environmental Protection Agency			-	303,212
Executive Office of the President:				
Executive Office of the President	95.000	Direct	-	105,946
Total Executive Office of the President			-	105,946

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Institute of Museum and Library Services:				
National Leadership Grants	45.312	Direct	-	145,190
Laura Bush 21st Century Librarian Program	45.313	Direct	-	11,949
Total Institute of Museum and Library Services			-	157,139
N.A.S.A.:				
Aerospace Education Services Program:				
NNX14AQ96G	43.001	Direct	-	24,180
NNX15AM03G	43.001	Direct	10,832	70,548
NNX15AQ72H	43.001	Direct	-	7,015
NNX15AU50G	43.001	Direct	-	54,820
NNX17AC43G	43.001	Direct	-	(39)
80NSSC17K0445	43.001	Direct	-	44,967
80NSSC17K0460	43.001	Direct	-	43,631
80NSSC17K0388	43.001	Direct	-	39,847
80NSSC18K1001	43.001	Direct	666	91,563
80NSSC19K0547	43.001	Direct	-	36,715
80NSSC19K0588	43.001	Direct	-	47,296
Arizona State University	43.001	09-193	-	71,393
California Institute of Technology	43.001	1619866	-	41,032
Directed Vapor Technologies International, Inc.	43.001	PROTECTIVE COATINGS	-	(43,725)
Lowell Observatory	43.001	2018-81420-UP	-	21,657
Smithsonian Astrophysical Observatory	43.001	TM8-19004X	-	5,653
University of Maryland	43.001	47162-Z6125002	-	38,780
Subtotal 43.001			11,498	595,333
Aeronautics	43.002	Direct	-	26,118
Pennsylvania State University	43.008	5240-UP-NASA-K06H	-	31,012
Pennsylvania State University	43.008	5497-UP-NASA-K06H	-	8,533
Pennsylvania State University	43.008	5999-UP-NASA-K06H	-	12,250
Subtotal 43.008			-	51,795
Space Technology	43.012	Direct	-	190,188
Center for the Advancement of Science in Space	43.000	GA-2016-236	57,047	120,951
Emergent Space Technologies, Inc	43.000	UNPIT001	-	12,000
Georgia Institute of Technology	43.000	RH809-G2	-	163,095
QuesTek Innovations LLC	43.000	PO# 1918	-	58,484
Space Telescope Science Institute	43.000	HST-AR-14568.001-A	-	26,938
Space Telescope Science Institute	43.000	HST-GO-13781.002-A	-	3,129
Space Telescope Science Institute	43.000	HST-GO-14476.002-A	-	4,010
Space Telescope Science Institute	43.000	HST-GO-14683.002-A	-	7,426
Space Telescope Science Institute	43.000	HST-GO-15436.006-A	-	11,184
Wyle Laboratories, Inc	43.000	T804051	-	38,533
Subtotal 43.000			57,047	445,750
Total N.A.S.A.			68,545	1,309,184
National Endowment for the Humanities:				
Promotion of the Humanities Division of Preservation and Access	45.149	Direct	-	83,626
Promotion of the Humanities Teaching and Learning Resources and Curriculum Development	45.162	Direct	-	43,750
Promotion of the Humanities Office of Digital Humanities	45.169	Direct	-	8,405
Total National Endowment for the Humanities			-	135,781
National Science Foundation:				
Engineering Grants	47.041	Direct	130,467	4,703,188
APO Technologies, Inc.	47.041	1	-	15,662
Carnegie Mellon University	47.041	1123333-407865	-	26,390
North Carolina A & T State University	47.041	260116A	-	458,674
Rice University	47.041	R3G221	-	(388)
Splintellx, Inc.	47.041	UPITT-NSF1843825	-	6,187
University of Tennessee	47.041	A17-1367-S001	-	8,808
Virginia Tech University	47.041	479852-19442	-	140,169
Subtotal 47.041			130,467	5,358,690
Mathematical and Physical Sciences	47.049	Direct	633,954	6,614,860
Associated Universities, Inc.	47.049	SOSPA5-010	-	8,783
Association of Universities for Research in Astronomy, Inc.	47.049	N72572C	-	78,017
Carnegie Mellon University	47.049	1122343-351111	-	111,572
Research Foundation - State University of New York	47.049	76749/1136652/2	-	172,969
University of California at Irvine	47.049	2014-3124	-	340,874
Subtotal 47.049			633,954	7,327,075

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Geosciences	47.050	Direct	67,910	671,493
University of Arizona	47.050	125166	-	937
Subtotal 47.050			<u>67,910</u>	<u>672,430</u>
Computer and Information Science and Engineering	47.070	Direct	58,246	4,690,371
Boise State University	47.070	6282-PO124442	-	6,377
Carnegie Mellon University	47.070	1122353-399022	-	26,935
Research Foundation - State University of New York	47.070	R1146532	-	17,318
University of Tennessee	47.070	A16-1316-S001	-	6,994
University of Utah	47.070	10047390-UPITT	-	9,820
Virginia Tech University	47.070	479590-19442	-	35,991
Subtotal 47.070			<u>58,246</u>	<u>4,793,806</u>
Biological Sciences	47.074	Direct	27,013	2,501,662
Baylor University	47.074	32050279-01	-	30,433
Carnegie Mellon University	47.074	1122469-369793	-	25,622
Duquesne University	47.074	G1600031	-	941
Oregon Health & Science University	47.074	1011004_UPITT	-	19,988
University of Dayton	47.074	RSC16079	-	126,787
Subtotal 47.074			<u>27,013</u>	<u>2,705,433</u>
Social, Behavioral, and Economic Sciences	47.075	Direct	-	700,638
Carnegie Mellon University	47.075	1122300-352752	-	72,425
National Bureau of Economic Research	47.075	34-3619-000797327700	-	2,295
University of California	47.075	KK1708	-	19,842
University of North Carolina	47.075	20170087-02-UOP	-	41,516
Subtotal 47.075			<u>-</u>	<u>836,716</u>
Education and Human Resources	47.076	Direct	259,107	3,873,596
Community College of Allegheny County	47.076	1400575-PITT	-	3,735
Educational Development Center	47.076	11717	-	16,871
Fred Rogers Company	47.076	PEG+CAT	-	30,773
University of Montana	47.076	G196-19-W7292	-	9,381
University of South Florida	47.076	2015-1126-00-A	-	26,968
University of Wisconsin	47.076	847K383	-	9,324
Subtotal 47.076			<u>259,107</u>	<u>3,970,648</u>
Office of International Science and Engineering	47.079	Direct	301,456	905,947
Office of Integrative Activities	47.083	Direct	-	111,230
Other National Science Foundation	47.000	Direct	-	(1)
Total National Science Foundation			<u>1,478,153</u>	<u>26,681,974</u>
Nuclear Regulatory Commission:				
U.S. Nuclear Regulatory Commission Scholarship and Fellowship Program	77.008	Direct	-	169,552
Total Nuclear Regulatory Commission			<u>-</u>	<u>169,552</u>
Total Other Agencies			<u>2,950,313</u>	<u>48,584,480</u>
TOTAL RESEARCH & DEVELOPMENT CLUSTER			<u>84,568,639</u>	<u>683,267,460</u>
II. STUDENT FINANCIAL ASSISTANCE CLUSTER				
Department of Education:				
Federal Supplemental Educational Opportunity Grants	84.007	Direct	-	1,573,377
Federal Work-Study Program	84.033	Direct	-	2,740,946
Federal Pell Grant Program	84.063	Direct	-	22,724,561
Federal Perkins Loan Program	84.038	Direct	-	24,368,893
Direct Student Loans Program	84.268	Direct	-	241,266,937
Total Department of Education			<u>-</u>	<u>292,674,714</u>
Health Resources and Services Administration:				
Nursing Faculty Loan Program	93.264	Direct	-	538,682
Health Professions Student Loan Program:				
Medicine	93.342	Direct	-	116,327
Dentistry	93.342	Direct	-	5,311,777
Pharmacy	93.342	Direct	-	1,626,554
Subtotal 93.342			<u>-</u>	<u>7,054,658</u>
Disadvantaged Student Loan Program:				
Dentistry	93.342	Direct	-	141,000
Medicine	93.342	Direct	-	267,678
Subtotal 93.342			<u>-</u>	<u>408,678</u>

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Nursing Student Loan Program:				
Baccalaureate	93.364	Direct	-	1,835,376
Nursing Faculty Loan Program - ARRA	93.408	Direct	-	88,736
Total Health Resources and Services Administration			-	9,926,130
TOTAL STUDENT FINANCIAL ASSISTANCE CLUSTER			-	302,600,844
III. TRIO CLUSTER:				
Department of Education:				
TRIO - Student Support Services	84.042	Direct	-	726,052
Total Department of Education			-	726,052
TOTAL TRIO CLUSTER			-	726,052
IV. HEAD START CLUSTER:				
Administration for Children and Families:				
Head Start	93.600	Direct	3,453,140	4,344,427
Total Administration for Children and Families			3,453,140	4,344,427
TOTAL HEAD START CLUSTER			3,453,140	4,344,427
V. CHILD NUTRITION CLUSTER:				
Department of Agriculture:				
Commonwealth of Pennsylvania	10.559	SFSP	-	11,849
Total Department of Agriculture			-	11,849
TOTAL CHILDREN NUTRITION CLUSTER			-	11,849
VI. OTHER PROGRAMS:				
<u>Department of Health and Human Services:</u>				
Administration for Children and Families:				
Commonwealth of Pennsylvania	93.643	4100081112	-	373,369
Research Foundation - State University of New York	93.648	8-82905	-	8,117
Commonwealth of Pennsylvania	93.658	4100064360	10,982	390,618
Commonwealth of Pennsylvania	93.658	4100066356	-	9,947,146
Commonwealth of Pennsylvania	93.658	4100081112	39,955	11,380,525
Subtotal 93.658			50,937	21,718,289
Commonwealth of Pennsylvania	93.669	4100064360	-	16,672
Commonwealth of Pennsylvania	93.669	4100081112	-	132,625
Subtotal 93.669			-	149,297
Commonwealth of Pennsylvania	93.674	4100064360	-	21,837
Commonwealth of Pennsylvania	93.674	4100081112	-	773,010
Subtotal 93.674			-	794,847
Total Administration for Children and Families			50,937	23,043,919
Administration for Community Living:				
ACL National Institute on Disability, Independent Living, and Rehabilitation Research	93.433	Direct	54,229	101,875
Total Administration for Community Living			54,229	101,875
Centers for Disease Control and Prevention:				
Birth Defects and Developmental Disabilities - Prevention and Surveillance	93.073	Direct	37,500	106,817
Louisiana Department of Health	93.074	2000311156	-	9,993
Injury Prevention and Control Research and State and Community Based Programs	93.136	Direct	-	127,976
Commonwealth of Pennsylvania	93.354	430061116	-	52,718
Oregon Health Authority	93.354	159701	-	17,999
Subtotal 93.354			-	70,717
ChangeLab Solutions	93.421	CDC7055-0-0109-1	-	35,386
ChangeLab Solutions	93.424	CDC7043-0-0109-1A1	-	5,542
Pennsylvania Pharmacists Association	93.426	4100082224-1815	-	25,211

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
Commonwealth of Pennsylvania	93.758	4100066456	4,034	24,357
District of Columbia	93.817	CW61684	-	67,359
Commonwealth of Pennsylvania	93.940	4300533540	-	292
Commonwealth of Pennsylvania	93.977	4300587825	-	1,446,330
Commonwealth of Pennsylvania	93.991	4100081647	-	161,682
Commonwealth of Pennsylvania	93.000	4400018535	-	57,838
Total Centers for Disease Control and Prevention			41,534	2,139,500
Centers for Medicare and Medicaid Services:				
Allegheny County	93.778	193520	-	(3,267)
Total Centers for Medicare and Medicaid Services			-	(3,267)
Health Resources and Services Administration:				
Training in General, Pediatric, and Public Health Dentistry	93.059	Direct	-	460,337
Eastcentral Pennsylvania Area Health Education Center	93.107	EC UP6111	-	5,499
Maternal & Child Health Federal Consolidated Programs	93.110	Direct	-	618,744
Nurse Anesthetist Traineeships	93.124	Direct	-	126,208
Substance Abuse and Mental Health Services Projects of of Regional and National Significance	93.243	Direct	-	1,680
Leadership in Public Health Social Work Education Grant Program	93.330	Direct	-	57,270
Public Health Training Centers Program	93.516	Direct	280,262	972,368
Sadler Health Center Corporation	93.527	3 H80CS29025-03-02	-	4,855
Mental and Behavioral Health Education and Training Grants	93.732	Direct	-	451,180
Chatham University	93.732	01	-	7,523
Chatham University	93.732	BHWET 01	-	5,591
Subtotal 93.732			-	464,294
Grants for Primary Care Training and Enhancement	93.884	Direct	-	95,888
PPHF Geriatric Education Centers	93.969	Direct	226,588	829,173
Total Health Resources and Services Administration			506,850	3,636,316
Substance Abuse and Mental Health Services Administration:				
CMSU Counties of Central Pennsylvania	93.104	6U79 SM062468-04M001	-	57,226
CMSU Counties of Central Pennsylvania	93.104	SM062468-03	-	18,665
Commonwealth of Pennsylvania	93.104	4100078411	-	518,007
Commonwealth of Pennsylvania	93.104	SAP #4100078411	-	217,120
Subtotal 93.104			-	811,018
Substance Abuse and Mental Health Services Projects of Regional and National Significance	93.243	Direct	47,094	1,464,023
Allegheny County	93.243	174565	-	377,502
Allegheny County	93.243	211641	-	7,419
Allegheny Singer Research Institute	93.243	49247209	-	14,369
Allegheny Singer Research Institute	93.243	49247909	-	45,046
Chatham University	93.243	1	-	54,264
Commonwealth of Pennsylvania	93.243	4300566877	-	76,183
Commonwealth of Pennsylvania	93.243	4300600269	-	218,852
Commonwealth of Pennsylvania	93.243	SAP 4100068678	-	264,003
Morehouse School of Medicine	93.243	128-01	-	33,265
University of the Sciences in Philadelphia	93.243	121-129102801	-	62,441
University of Utah	93.243	10041723-PITT	-	29,635
Subtotal 93.243			47,094	2,647,002
Pennsylvania State University	93.788	6007-UP-SAMHSA-1889	-	8,334
Total Substance Abuse and Mental Health Services Administration			47,094	3,466,354
DHHS Other:				
Futures Without Violence	93.088	2835	-	9,500
Total DHHS Other			-	9,500
Total Department of Health and Human Services			700,644	32,394,197
Department of Defense:				
National Security Agency:				
Language Grant Program	12.900	Direct	-	110,487
Total National Security Agency			-	110,487
DoD Other:				
Institute of International Education	12.357	1801PITT20PGO051PO1	-	374,041
Institute of International Education	12.357	2603PITT14GO-051-PO4	-	195,714
Subtotal 12.357			-	569,755

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
University of California at Los Angeles	12.000	2000 P UG248	-	79,007
Total DoD Other			-	648,762
Total Department of Defense			-	759,249
Other Agencies:				
Appalachian Regional Commission:				
Innovation Works	23.002	ARC POWER	-	70,138
Innovation Works	23.002	SWPA Coal-Impact	-	35,875
Total Appalachian Regional Commission			-	106,013
Corporation for National and Community Services:				
Jumpstart for Young Children, Inc.	94.006	JS-SITE #09	-	193,392
National Service and Civic Engagement Research Competition	94.026	Direct	14,646	58,170
Total Corporation for National and Community Services			14,646	251,562
Department of Agriculture:				
Commonwealth of Pennsylvania	10.558	300-02-961-3	-	23,023
Total Department of Agriculture			-	23,023
Department of Commerce:				
Catalyst Connection	11.307	PO00003070	-	4,341
Total Department of Commerce			-	4,341
Department of Education:				
National Resource Centers Program for Foreign Language and and Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship Program	84.015	Direct	-	1,078,009
Undergraduate International Studies and Foreign Language Programs	84.016	Direct	-	41,089
Higher Education Institutional Aid	84.031	Direct	-	482,095
Santa Fe College	84.031	T001	-	6,808
Subtotal 84.031			-	488,903
Commonwealth of Pennsylvania	84.126	FC4000007735	-	711,414
Graduate Assistance in Areas of National Need	84.200	Direct	-	192,925
Homewood Children's Village	84.215	HCV/PACS	-	4,215
Pennsylvania State University	84.229	6023-UP-USDE-0009	-	8,465
Special Education - Personnel Development to Improve Services and Results for Children with Disabilities	84.325	Direct	-	484,699
Salus University	84.325	PITT 88403 17-18	-	2,000
Salus University	84.325	PITT 88404 FALL2018	-	27,426
Salus University	84.325	PITT 88404A 1819	-	31,765
Subtotal 84.325			-	545,890
National Writing Project Corporation	84.367	92-PA09-SEED17-CRWPP	-	12,527
Total Department of Education			-	3,083,437
Department of Interior:				
National Writing Project Corporation	15.954	92-PA09-NPS2018	-	3,500
Total Department of Interior			-	3,500
Department of Justice:				
Commonwealth of Pennsylvania	16.754	4300548899	-	(14,832)
Commonwealth of Pennsylvania	16.000	4300548943	-	6,452
Total Department of Justice			-	(8,380)
Department of Labor:				
Commonwealth of Pennsylvania	17.245	TAA0249.14	-	-
Commonwealth of Pennsylvania	17.245	TAA0249.17	-	102,000
Total Department of Labor			-	102,000
Department of Treasury:				
Low-Income Taxpayer Clinics	21.008	Direct	-	84,687
Total Department of Treasury			-	84,687
Institute of Museum and Library Services:				
Pennsylvania School Librarians Association	45.310	001	-	44,352
Pennsylvania School Librarians Association	45.310	002	-	36,015
Total Institute of Museum and Library Services			-	80,367

**UNIVERSITY OF PITTSBURGH OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal Grantor/Pass Through Grantor/Program Title	CFDA Number	Direct Award or pass-through entity identifying number	Passed Through to Subrecipients	Federal Expenditures
National Endowment for the Humanities:				
Promotion of the Humanities Challenge Grants	45.130	Direct	-	12,080
Promotion of the Humanities Office of Digital Humanities	45.169	Direct	-	165,243
Total National Endowment for the Humanities			-	177,323
Nuclear Regulatory Commission:				
U.S. Nuclear Regulatory Commission Scholarship and Fellowship Program	77.008	Direct	-	66,000
Total Nuclear Regulatory Commission			-	66,000
Peace Corps:				
Other Peace Corps	08.000	Direct	-	23,160
Total Peace Corps			-	23,160
Small Business Administration:				
Kutztown University	59.037	SBA20180714	-	137,633
Kutztown University	59.000	EARLY AWARD	-	210,008
University of Pennsylvania	59.000	5-73387	-	10,251
University of Pennsylvania	59.000	573568-J	-	2,498
Subtotal 59.000			-	222,757
Total Small Business Administration			-	360,390
Total Other Agencies			14,646	4,357,423
TOTAL OTHER PROGRAMS			715,290	37,510,869
GRAND TOTAL - FEDERAL AWARDS AND GRANTS			\$ 88,737,069	\$ 1,028,461,501

See accompanying notes to schedule of expenditures of federal awards and independent auditors' reports.

**UNIVERSITY OF PITTSBURGH – OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Notes to Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

(1) Basis of Presentation and Significant Accounting Policies

The accompanying schedule of expenditures of federal awards (the Schedule) includes all grants, contracts, and similar agreements of the University of Pittsburgh – Of the Commonwealth System of Higher Education (the University), which have been received from the U.S. federal government for the year ended June 30, 2019. The federal award information is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

For the purposes of the Schedule, federal awards have been classified in two types:

- Direct federal awards, and
- Pass-through funds received from nonfederal organizations made under federally sponsored programs conducted by those organizations.

The Schedule also presents expenditures passed through from the University to other nonfederal subrecipient organizations. Since the Schedule presents only a selected portion of the activities of the University, it is not intended to and does not present either the financial position, changes in net assets, or cash flows of the University. The Schedule is prepared on the accrual basis of accounting. Negative expenditures detailed in the Schedule result from current year adjustments to prior year award amounts.

Expenditures for federal awards (excluding student financial assistance) are determined using the administrative requirements as set forth in OMB Circular A-110, *Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education, Hospitals, and Other Non-Profit Organizations* or the administrative and cost principles contained in the Uniform Guidance, and the cost accounting principles and procedures set forth in OMB Circular A-21, *Cost Principles for Educational Institutions*, as applicable. Under these administrative requirements and cost principles, certain expenditures are not allowable or are limited as to reimbursement.

Expenditures for student financial assistance are recognized as incurred and include the federal share of students' Federal Supplemental Educational Opportunity Grants program and Federal Work-Study program earnings, Pell grants, loan disbursements and loan outstanding balances, and administrative cost allowances, where applicable.

(2) Reimbursement of Facilities and Administrative Costs

Sponsored grants and contracts normally provide for the recovery of direct costs and facilities and administrative costs (F&A costs). Recovery of the related F&A costs is generally recorded at predetermined rates negotiated with the federal government. Entitlement to these resources for the recovery of the applicable direct and related F&A costs is generally conditioned upon compliance with the terms and conditions of the grant agreements and applicable federal regulations, including the expenditure of the resources for eligible purposes. Substantially all grants and the University's F&A cost rate are subject to financial and compliance reviews and audits by the grantors. In management's opinion, the likelihood of an adverse material outcome upon the University's financial position from those reviews and audits is remote. On June 10, 2015, the Department of Health and Human Services approved F&A cost recovery rates effective from July 1, 2015 through June 30, 2019. The University has elected not to use the 10-percent de minimis indirect cost rate as allowed under the Uniform Guidance.

**UNIVERSITY OF PITTSBURGH – OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Notes to Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

(3) Federal Loan Programs

The University administers the following federal loan programs with an outstanding loan balance as of June 30, 2019:

Federal grant and program title	Federal CFDA number	Outstanding loan balance
Department of Education – Federal Perkins Loan Program	84.038	\$ 20,067,314
Department of Health and Human Services – Public Service:		
Health Professions Student Loan Program:		
Medicine	93.342	\$ 97,027
Dentistry	93.342	4,693,172
Pharmacy	93.342	1,372,472
Nursing Student Loan Program – Baccalaureate	93.364	1,480,389
Nursing Faculty Loan Program:		
Nursing Faculty Loan ARRA	93.408	77,285
Nursing Faculty Loan	93.264	486,135
Disadvantaged Student Loan Program:		
Medicine	93.342	260,387
Dentistry	93.342	132,170

The Perkins and Department of Health and Human Services Public Service Loan Programs are administered directly by the University, and balances and transactions relating to these programs are included in the University's consolidated financial statements. The amounts included in the Schedule of Expenditures under the Perkins and Department of Health and Human Services Public Service Loan Programs include the balance of the respective loan program as of June 30, 2018, administrative costs, if any, and new loans issued during fiscal 2019.

(4) Department of Education Direct Loan Programs

The University is responsible only for the performance of certain administrative duties with respect to the Direct Loans; accordingly, these loans are not included in the University's consolidated financial statements and it is not practical to determine the balance of loans outstanding to students and former students of the University under these programs.

(5) Student Financial Assistance Program

For the year ended June 30, 2019, administrative costs on the Student Financial Assistance Program were claimed under the Federal Work Study Program in the amount of \$243,387.

(6) Vendor Relationships

The Special Education Program (CFDA #84.027) constitutes a vendor relationship with the University in accordance with Uniform Guidance. This project is being excluded from the Schedule, although it represents federal funds of \$3,654,501 for the year ended June 30, 2019.



KPMG LLP
BNY Mellon Center
Suite 3400
500 Grant Street
Pittsburgh, PA 15219-2598

Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With *Government Auditing Standards*

The Board of Trustees
University of Pittsburgh – Of the Commonwealth
System of Higher Education:

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the consolidated financial statements of the University of Pittsburgh – Of the Commonwealth System of Higher Education (the University), which comprise the consolidated balance sheet as of June 30, 2019, and the related consolidated statements of activities, and cash flows for the year then ended, and the related notes to the consolidated financial statements, and have issued our report thereon dated October 16, 2019, which included an emphasis of matter paragraph for the University's adoption of Accounting Standards Update (ASU) 2016-14, *Presentation of Financial Statements of Not-for-Profit Entities*; ASU 2014-09, *Revenue from Contracts with Customers (Topic 606)*, as amended; ASU 2018-08, *Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made*; and ASU 2017-07, *Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*.

Internal Control Over Financial Reporting

In planning and performing our audit of the consolidated financial statements, we considered the University's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the consolidated financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.



Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's consolidated financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

KPMG LLP

Pittsburgh, Pennsylvania
October 16, 2019



KPMG LLP
BNY Mellon Center
Suite 3400
500 Grant Street
Pittsburgh, PA 15219-2598

**Independent Auditors' Report on Compliance for Each Major Federal Program;
Report on Internal Control Over Compliance; and Report on Schedule of Expenditures
of Federal Awards Required by the Uniform Guidance**

The Board of Trustees of the
University of Pittsburgh – Of the Commonwealth
System of Higher Education:

Report on Compliance for Each Major Federal Program

We have audited the University of Pittsburgh – Of the Commonwealth System of Higher Education's (the University) compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2019. The University's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs for the year ended June 30, 2019.

Report on Internal Control Over Compliance

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements



that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the consolidated financial statements of the University as of and for the year ended June 30, 2019, and have issued our report thereon dated October 16, 2019, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming an opinion on the consolidated financial statements as a whole. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the consolidated financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the consolidated financial statements. The information has been subjected to the auditing procedures applied in the audit of the consolidated financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the consolidated financial statements or to the consolidated financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the consolidated financial statements as a whole.

KPMG LLP

Pittsburgh, Pennsylvania
March 10, 2020

**UNIVERSITY OF PITTSBURGH – OF THE
COMMONWEALTH SYSTEM OF HIGHER EDUCATION**

Schedule of Findings and Questioned Costs

Year ended June 30, 2019

(1) Summary of Auditors' Results

- (a) Type of report issued on whether the consolidated financial statements were prepared in accordance with generally accepted accounting principles: **Unmodified**
- (b) Internal control deficiencies over financial reporting disclosed by the audit of the consolidated financial statements:
 - Material weaknesses: **No**
 - Significant deficiencies: **None reported**
- (c) Noncompliance material to the financial statements: **No**
- (d) Internal control deficiencies over major programs disclosed by the audit:
 - Material weaknesses: **No**
 - Significant deficiencies: **None reported**
- (e) Type of report issued on compliance for major programs: **Unmodified - CFDA #93.658 Foster Care Program and Unmodified – Research and Development Cluster**
- (f) Audit findings that are required to be reported in accordance with 2 CFR 200.516(a): **No**
- (g) Major programs:
 - Research and Development Cluster – various CFDA numbers
 - Foster Care Program - CFDA #93.658
- (h) Dollar threshold used to distinguish between Type A and Type B programs: **\$3,085,079**
- (i) Auditee qualified as a low-risk auditee: **Yes**

(2) Findings Relating to the Financial Statements Reported in Accordance with *Government Auditing Standards*

None

(3) Findings and Questioned Costs Relating to Federal Awards

None