

2018 Report on the Research Trust Fund (RTF)

Background

Outlined in Series 48, Research Trust Fund Program, the Commission receives annual reports from institutions and is required to submit a combined annual report on the Research Trust Fund to the Governor and the Legislative Oversight Commission on Education Accountability (LOCEA) by January 1 of each year.

In compliance with this statutory requirement, the LOCEA is provided the annual report for 2017-2018 activities within the Research Trust Fund for review, and approval. The 2018 report is the tenth in a series of annual reports provided by staff since the program's inception in 2008.

RTF Activities through August 2018

The Commission completed its initial implementation plan during the fall of 2008 which resulted in Title 133 Legislative Rules Series 48, subsequently approved by the legislature during the 2009 regular session. The rule establishes guidelines, procedures and documentation standards for the distribution of funds in the West Virginia Research Trust Fund. The rule designates the Vice Chancellor for Science and Research as the administrator of the program, under the general direction of the Chancellor and the Commission. The final rules are available at https://www.wvhpc.org/resources/rulesandpolicies_files/Series%2048%20%284-16-09%29.pdf.

Commission staff created an electronic "Match Request System" (MRS) in 2008 that allowed secure transactions for RTF requests made by the universities. All requests, documentation and invoicing are permanently recorded in files that allow sorting, analysis and up-to-date balance information. The MRS was cross referenced with university records annually to ensure accuracy in drawdown reporting for previous reports.

Required "Research Plans" specified by the legislation and approved by institutional Boards of Governors' were received from both West Virginia University and Marshall University. Both institutional plans are on file at the Commission and are found to be generally compliant with legislative requirements.

The RTF financial account was established in late June 2008 by the State Auditor and made accessible to Commission staff for distribution. All transactions from this fund were completed in 2013.

Interest funds generated by the RTF account have been separately tracked for distribution to State Colleges as defined by the Legislature. On May 15, 2009, the Commission released the first competitive request for proposals for RTF interest funds collected on the account specifically for state colleges and the WV School of Osteopathic Medicine in accordance with provisions of §18B-18A-10 of the code. A second request for proposals was issued on March 9, 2010 a third on June 2, 2011, a fourth on May 30, 2012 and a fifth on September 21, 2012. Proposals for up to \$100,000 each were received from eligible institutions and subsequently reviewed by external peers for program merit. Two awards were issued in 2009, two in 2010 and one in 2011 as a result. No applications were received in response to the May 2012 request for proposals. A request for proposals was issued on September 7, 2012 – one institution was awarded. A final award was made on May 6, 2013

The institutions who received awards from the RTF for State Colleges and Universities were Shepherd University, Fairmont State University, West Liberty University, West Virginia State University and West Virginia University Institute of Technology.

The Research Trust Fund has been fully matched and no additional funds are available for distribution.

Marshall University and West Virginia University reports for 2018 are attached.



Marshall University
Research Endowment Plan Annual Report
2017-2018

Submitted to the Division of Science and Research at the
West Virginia Higher Education Policy Commission

I. Summary

The West Virginia Research Trust Fund program has created sixteen endowments at Marshall University to fund allowed research-related activity. Over fifteen million dollars of private donations and the fifteen million dollars of state match have been invested in the Marshall University Foundation and Marshall University Research Corporation, respectively. These endowments span research areas from Engineering to Clinical and Translational Research and specify uses from direct research support to student research stipends. In FY 2013, the full \$15MM in gifts and pledges was raised, along with an excess of over \$800,000.

As of June 30, 2018, the Marshall University Bucks for Brains Endowments totaled \$34.5MM, with \$1.89 MM of endowment proceeds expended over the life of the program. FY 18 expenditures totaled \$672,000. Earnings to date have amounted to \$7.72MM.

II. Review of the Marshall University Research Endowment Plan

Marshall's original Research Endowment Plan approved by the University's Board of Governors in 2008, directed donations to:

- Endowment of the Marshall Institute for Interdisciplinary Research (MIIR), continuing with the plan laid out in Marshall's application to the Eminent Scholars Recruitment and Enhancement (ESRE) initiative; and
- Advancement of Intelligent Transportation Systems research at the Rahall Transportation Institute (RTI).

In November 2010, the Marshall University Board of Governors approved a Research Trust Fund Addendum (Appendix One) that broadened the recognition of Biomedicine/ Biotechnology as a focus for donor activity across the University, and further included aspects of Engineering, Environmental Science and the Physical Sciences.

III- Endowed Research Area Highlights

A brief update on highlighted activities of the endowments is included below. A comprehensive summary of the endowments is included in previous versions of this report. The current corpus balances and earnings-to-date are provided in Table One, at the end of this section.

FY 2018 activities associated with cellular sodium-potassium pump (Na/K ATPase) signaling and oxidative stress in addressing a variety of disease states have continued in the School of Medicine. Important discoveries have been made in the area of aging and muscular development.

In a preliminary rat animal study, Dahl salt-sensitive (SS) rats and relatively salt-resistant SS-13BN (on the background of SS rats) rats were given SnMP or CoPP, respectively, and then fed with high salt (4% NaCl) diet. The hypothesis is that induction of HO-1 in SS rats will reduce basal oxidative stress rendering the rats relatively salt resistant, and inhibition of HO-1 activity in SS-13BN rats will increase oxidative stress rendering the rats relatively salt sensitive. In the last year, our preliminary data showed that induction of HO-1 is able to lower blood pressure (BP), and significantly reduce a high salt diet mediated BP increase.

The Maier Institute has developed a multi-disciplinary team of researchers including faculty members in the fields of geriatrics, clinical informatics, translational science, internal medicine, psychiatry, and pharmacy.

The Maier Institute will continue to work towards the goals of its externally funded grant program Rational Benzodiazepine Avoidance and Deprescribing.

B-Current Fund Balances

The current fund balances for the Marshall University Research Trust Fund Endowments are shown in Table One, below, along with earnings since inception. Expenditures in FY 2018 amounted to \$560,000.

Table One- Fund Balances for Marshall University’s Research Trust Fund Endowments at the End of FY18 (Reflecting MURC and MUF holdings as of June 2018)

| # | Fund | Corpus | Total Earnings Since Inception |
|----|--|------------|--------------------------------|
| 1 | MIIR | 6,614,731 | 1,975,462 |
| 2 | RTI | 350,000 | 122,911 |
| 3 | Maier Dementia Research | 2,000,150 | 574,577 |
| 4 | Fletcher Engineering | 1,693,855 | 443,270 |
| 56 | Pew River Research | 530,200 | 156,610 |
| 7 | Brickstreet Safety Research | 441,600 | 138,491 |
| 8 | Chemistry SURF | 242,395 | 63,126 |
| 9 | Zacharias OB/GYN | 796,714 | 227,902 |
| 10 | Translational Sports Medicine Research | 10,126,650 | 2,440,522 |
| 11 | Eiselstein Scholarship | 111,100 | 19,962 |
| 12 | Tarter Scholarship | 44,970 | 8,937 |
| 13 | Beckelhimer Scholarship | 105,000 | 21,424 |
| 14 | Hanshaw Geriatric Research | 1,000,000 | 197,499 |
| 15 | Rezulin Endocrinology Research | 1,782,021 | 402,627 |
| 16 | Brickstreet Wellness Research | 5,000,000 | 927,613 |
| | Total | 30,839,386 | 7,720,934 |

Appendix One- Marshall University's Research Trust Fund Addendum

The University's directed research endowment plan has concentrated initially in two domains of interdisciplinary research, which are strengths at Marshall: research clusters in biomedicine/biotechnology/ bionanotechnology and transportation technology/logistics. Marshall's Research Trust Fund activities are to be expanded to include the following areas:

I. Engineering

Engineering is a foundational discipline essential to the development and implementation of research in the approved areas in the Research Trust Fund legislation¹. Marshall has recently achieved ABET accreditation of its engineering program, and has experienced dramatic facilities growth with the construction and occupation of The Arthur Weisberg Family Engineering Laboratories facility and is planning for the future addition of an Advanced Engineering and Technology Center Complex. Development of robust undergraduate and graduate programs and the associated integral research opportunities are essential to developing and enhancing the capabilities and profile of the school.

Match from the Research Trust Fund was used to enhance private donations for endowed professorships and other research-related positions and initiatives in all aspects of Engineering as they relate to the allowed subject areas of the Research Trust Fund Program and the associated uses allowed in the legislation.

Two examples of gifts that have been received in support of engineering endowments are included, and a third solicitation is discussed:

A. Applied Research- Safety Engineering Program

Risk management is a highly specialized field that involves applying the principles of safety engineering and industrial hygiene and integrating them with economic and financial analysis. Marshall University will expand its Research Trust Fund Plan in this area important to transportation and logistics and energy to support an endowment in risk management research. The proposed endowment will support the development of research expertise in

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4.3.1. Energy and environmental sciences;

4.3.2. Nanotechnology and materials sciences;

4.3.3. Biological, biotechnical and biomedical sciences;

4.3.4. Transportation technology and logistics;

4.3.5. Biometrics, security, sensing, and related identification technologies; and

4.3.6. Gerontology.

the school of engineering in the area of risk management, a highly interdisciplinary pursuit at the interface of management, engineering and applied mathematics.

The proposed applied research employs advanced risk management concepts and research to identify, trend, estimate and reduce workplace hazards in industry based in WV. The area will be supported by a \$100,000 endowment received from BrickStreet and the corresponding state match.

Risk management is of particular interest to the energy industry in our state because of the safety and economic risks associated with the extraction process. In energy, risk management research is essential to find new ways to:

- deal with its high element of monetary risk due to the uncertainty of the economic and regulatory outlook
- reduce the physical risk associated with extraction and development activities, and improve the safety of individual employee

In transportation and logistics research, risk management has become central to understanding many critical elements such as:

- the robustness and resilience of our transportation systems to interruptions due to system load, natural phenomena, and man-made disruptions
- the risks associated with transport of hazardous materials and the potential benefits of mitigation of those risks
- the robustness of logistics networks
- the risks associated with logistics and supply chain outsourcing

These benefits are of particular relevance to the state given current events, and are particular interests of the donor.

B. Mechanical Engineering

Mechanical engineering applies the principles of physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems. Mechanical engineers use the core principles of mechanics, kinematics, thermodynamics, materials science, and structural analysis along with tools like computer-aided engineering and product lifecycle management to design and analyze items as diverse as manufacturing plants, industrial equipment and machinery, heating and cooling systems, motorized vehicles, aircraft, watercraft, robotics, medical devices and more.

The field has continually evolved to incorporate advancements in technology, and mechanical engineers today are pursuing developments in such fields as composites, mechatronics, and nanotechnology. Mechanical engineering overlaps with aerospace engineering, civil engineering, electrical engineering, and petroleum engineering to varying amounts.

A gift from the Fletcher family will endow a founding Chair of Mechanical Engineering. Mechanical Engineering is an important discipline in Bioengineering and energy sectors. This endowment is essential to developing a Department of Mechanical Engineering, by attracting a senior-level professor to Marshall, with his/her associated research programs.

Another area that is endorsed by the Board of Governors for planning and an active source of solicitation is:

C. Bioengineering

In the translation of biomedical and biotechnology advances, bioengineering is a lynchpin in bridging the transition from academe to commercialization. Marshall University is planning to develop a Bioengineering Department contemporaneously with the construction of the Applied Technology and Engineering Complex. The development of the Department would follow a trajectory very similar to that of Mechanical Engineering, with the attraction of a founding research scientist/bioengineer.

“Biological engineering, biotechnological engineering or bioengineering (including biological systems engineering) is the application of engineering principles to address challenges in the life sciences, which include the fields of biology, ecology, and medicine. Biological engineering is a science based discipline founded upon the biological sciences in the same way that chemical engineering, electrical engineering, and mechanical engineering are based upon chemistry, electricity and magnetism, and statics, respectively”².

“Biological Engineering can be differentiated from its roots of pure biology or classical engineering in the following way. Biological studies often follow a reductionist approach in viewing a system on its smallest possible scale, which naturally leads toward the development of tools such as functional genomics. Engineering approaches using classical design perspectives are constructionist, involving the building and research of new devices, approaches, and technologies from component concepts. Biological engineering utilizes both of these methods in concert relying on reductionist approaches to define the fundamental units, which are then commingled to generate something new”.³“Although engineered biological systems have been used to manipulate information, construct materials, process chemicals, produce energy, provide food, and help maintain or enhance human health and our environment, our ability to quickly and reliably engineer biological systems that behave as expected remains less well developed than our mastery over mechanical and electrical systems”.⁴

² Cuello J.C., “Engineering to biology and biology to engineering, The bi-directional connection between engineering and biology in biological engineering design”, *Int. J. Eng. Ed.*, **21**,1-7 (2005).

³ Riley MR, “Introducing Journal of Biological Engineering”, *Journal of Biological Engineering* **1**, 1 (2007).

⁴ Endy D, “Foundations for Engineering Biology”, *Nature*, **438**, 449-4 (2005).

Given Marshall's research strengths in the biological and biomedical sciences and the emphasis of initiatives, like the Marshall Institute for Interdisciplinary Research (MIIR), on translating key research findings into commercialization, the discipline of bioengineering sits at a nexus of opportunity for the University. It will be a critical element in fully developing the potential of Marshall's applied research enterprise and its translation to economic development.

II. Mathematics and the Physical Sciences

Mathematics and the Physical Sciences are basic sciences that have relevance to all aspects of the allowed areas of the Research Trust Fund legislation. Research Trust Fund match was sought to enhance private donations supporting endowed professorships and other research-related positions and initiatives focusing on research in the allowed areas in these disciplines.

The first application was for an endowed rotating professorship to promote an undergraduate summer research experience in Chemistry.

This match for the undergraduate research endowment under the Research Trust Fund was used because undergraduate summer research in Chemistry is relevant to so many of the legislatively enabled areas:

- Chemistry is one of the fundamental underpinnings of nanoscience because of the molecular nature of the discipline
- The Department of Chemistry at Marshall University has core groups in biochemistry/biotechnology and materials science
- Faculty members also work on energy research and molecular energetics.

WV Research Trust Fund

Annual Report

from

West Virginia University⁵

August 15, 2018

⁵ Address questions and requests for additional information regarding WVU's Strategic Research Plan and the Research Trust Fund initiative to Provost Joyce McConnell, West Virginia University (joyce.mcconnell@mail.wvu.edu) or Vice President for Research, Dr. Fred King, West Virginia University (fred.king@mail.wvu.edu).

Introduction

This tenth annual report describes the history of the Research Trust Fund, responds directly to the reporting requirements outlined in Series 48 (§ 133-48-14), and lays out the proposed spending plan for the earned interest and carry over funds from each endowment for FY 2019.

History of the Research Trust Fund (2008-2009)

In March 2008, the West Virginia Legislature enacted Senate Bill 287, commonly referred to as the Research Trust Fund, as an effort to build a critical mass in selected areas of research and thus lay the groundwork for future economic development. The initial Bill provided a five-year window for the deposit of qualified donations into research endowments. Senate Bill 239 (Passed March 12, 2011) amended §18B-18A-9 of the Code of West Virginia to provide a seven year window. Senate Bill 287 committed \$35 million to West Virginia University as a basis for a 1:1 match with private dollars to create endowments that would provide a sustainable source of funds for research and development. West Virginia University's approved Strategic Research Plan identified four areas for investment:

- Energy and environmental sciences;
- Nanotechnology and material science;
- Biological, biotechnological, and biomedical sciences; and
- Biometrics, security, sensing and related identification technologies.

A brief description of each research area is available at http://research.wvu.edu/home/research_trust_of_west_virginia_university. These areas were selected because they complemented the expertise of WVU's faculty, were critical issues of importance to the public, and were at the core of WVU's land-grant mission.

An Addendum to WVU's Strategic Research Plan for the Research Trust Fund was approved by the WVU Board of Governors in December 2010 and incorporated therein. Three modifications were made:

1. Adding forensic sciences as an area of emphasis under the biometrics, security, sensing, and related identification technologies, providing the opportunity for private investment into this area of research.
2. Adding a Library endowment to support the acquisition of materials in the four research areas, clarifying the importance that library resources provide to a vibrant research agenda.
3. Removing the language "no research area may receive more than \$17.5 million in private donations within the first two years," allowing WVU to maximize private investment regardless of focus area.

Achieving the Goal: \$70 million in Private and State Endowments

During the first four years after the inception of the Research Trust Fund, West Virginia University received gifts and pledges totaling \$35 million, the total amount allocated to the University through the Research Trust Fund initiative. Each endowment was qualified by the West Virginia University Board of Governors and thus eligible for state matching funds. **Thus the University's goal was achieved.**

The seven-year pledge period has officially concluded. The 85 endowments in Appendix A represent the final portfolio established under the Research Trust Fund initiative. These endowments include five generic types of gifts: 12 chairs and professorships, 12 undergraduate scholarships, 14 graduate fellowships, 2 graduate or undergraduate fellowships, 43 broad-based research support funds, and 2 library endowments.

Compliance with Legislative Rule for Research Trust Fund

Three specific reporting requirements are identified in Series 48 (§ 133-48-14), the Research Trust Fund Program.

1. *14.1. By August 15, 2009, and annually thereafter, each participating institution shall provide an annual report to the Commission that includes a full accounting of the trust funds, endowment proceeds, and adherence to the objectives established by the research plan.*
2. *14.2. Each participating institution shall detail in its annual report to the Commission the total amount of qualified donations received, the investment earnings realized and any anticipated expenditures of the research endowment proceeds in its annual operating budget.*

The data in APPENIDX A summarize much of the information requested by the Legislative Rule.

Through June 30, 2018 the following results have been achieved:

- **FY18 Market Value for all the Private RTF Endowments**
The market value of Directed Research Endowments established with private gifts invested in the Research Trust Fund Program of the WVU Foundation Endowment for fiscal year ending June 30, 2018 is \$43,492,179.
- **FY19 Spend Available for the Private RTF Endowments**
The available proceeds from Directed Research Endowments established with private gifts invested in the Research Trust Fund Program of the WVU Foundation Endowment for FY19 are \$1,787,830.

- **FY18 Market Value for all the State RTF Endowments**
The market value of Directed Research Endowments established with trust distributions (state funds) to the Research Trust Fund Program of the WVU Foundation Endowment for fiscal year ending June 30, 2018 is \$39,838,451.
- **FY19 Spend Available for the State RTF Endowments**
The available proceeds from Directed Research Endowments established with trust distributions to the Research Trust Fund Program of the WVU Foundation Endowment for FY19 is \$2,462,204.
- **NOTE:** During the period from March 08, 2008 to June 30, 2012, the WVU Foundation received 19 distributions from the Research Trust Fund totaling \$35,000,000; these dollars provided the matching funds for 1210 qualified gifts (donations and pledges) to Directed Research Endowments established under the Research Trust Fund.

3. *14.4. Each participating institution's research corporation and/or foundation shall provide the Commission with an audited financial statement annually. These statements shall be treated as confidential.*

A copy of the audited financial statements for years ending June 30, 2017 and 2016 for the WVU Foundation has been forwarded, under separate cover, to the Policy Commission through Director Jan Taylor. Because of timing of submission of this report relative to the receipt of the audited financial statement, the audited financial statement of the WVU Foundation, Inc. will always be a year in arrears.

Impact of the Research Trust Fund

Vice President for Research Fred King remarked previously that: “The Research Trust Fund is not only an investment in our University, it is an investment in the future of our state. We know that research and innovation are the key economic drivers as we move forward in the 21st Century and compete in a global economy. The ideas generated and the students educated through the endowments establish under the Research Trust Fund initiative provide a basis for West Virginia’s future prosperity. We are thankful to the donors and the West Virginia legislature for their confidence in our ability to deliver the innovation and education essential to the state’s economic future.”

To place Vice President King’s remarks in a more specific context, WVU learned on February 1, 2016, that it was classified as an R1 or highest research activity, university by the Carnegie Classification of Institutions of Higher Learning, a ranking is shared by only 114 other universities in the United States. This ranking authenticates the quality of WVU’s research on the global stage. In FY 2018, WVU faculty secured \$140 million in externally sponsored grants and contracts.

President Gordon Gee continues to make the critical point that WVU must help West Virginia reshape its economy for a brighter future. Three critical pillars undergird the reshaping of the state: education, healthcare, and broad-based prosperity. The institution's research investments, the research funds generated by our faculty, and the support provided by the Research Trust fund set the foundation on which these pillars rest.

WVU is committed to using its RTF resources to help shape the state's future and improve the quality of life for all West Virginians. A few examples follow that illustrate the impact of West Virginia University's research on the State of West Virginia's health and prosperity:

The University was recently selected for the initial clinical trial of an innovative treatment for Alzheimer's disease. The director of the University's Rockefeller Neuroscience Institute, Dr. Ali Rezai, established a collaboration with INSIGHTEC, a medical technology company based in Israel, to begin a clinical trial of focused ultrasound to treat Alzheimer's disease. In a Phase II clinical trial, Dr. Rezai's team will evaluate the safety and benefits of focused ultrasound to disrupt the blood-brain barrier to treat regions of the brain impacted by Alzheimer's. The ability of focused ultrasound to reduce cognitive decline arising from this devastating disease will also be explored. In announcing this collaborative effort, Dr. Rezai, who also holds the John D. Rockefeller IV Chair of Neuroscience note that "Today's news is a major step forward for the WVU Rockefeller Neuroscience Institute, the State of West Virginia, and the nation in the struggle to combat Alzheimer's - one of the most dreaded neurological diseases."

The West Virginia University Energy Institute, led by Professor Brian Anderson, partnered with the US Department of Energy and Rockwell Automation, as well as other private partners, to undertake a \$3.4M project to explore the feasibility of technology to separate and extract rare earth elements from acid mine drainage and sludge. These rare earth elements are essential to modern technologies ranging from consumer goods to defense systems. They are in limited supply in the United States and command a high price in the global market. In his remarks at the commissioning of WVU's Rare Earth Extraction Facility, President Gee pointed out that "research on rare-earth extraction is one way that our University is fulfilling its most important mission—which is the land grant mission—to advance the prosperity of the people of this state."

On November 9, 2017, West Virginia University and the State of West Virginia gained international attention as the China Energy Investment Corporation, Ltd., announced that it would invest \$83.7 billion in the state. The agreement arose from a long-standing research partnership between WVU and China's largest energy supplier, the Shenhua Group. Much of the funding would focus on the development of an Appalachia Storage and Trading Hub for liquid hydrocarbons derived from shale gas. This is a project on which WVU is working closely with the WV Department of Commerce. As Brian Anderson stated at the time, "This is a game changer for the State of West Virginia". President Gee noted that "This investment by China Energy is the culmination of years of relationship building, both by West Virginia University and the state. It is also an excellent example of the possibilities that we have been discussing within the West

Virginia Forward initiative with our partners at the state Department of Commerce and Marshall University.”

It should be pointed out, that much of this is also interwoven within the statewide West Virginia Forward effort that Marshall University, West Virginia University, and the Department of Commerce are engaged in to diversify and grow the economy of the State of West Virginia. Such diversification and growth is dependent on the continued development of a strong ecosystem for research and innovation to convert ideas and talent into products and jobs.

Business Plan

In addition to the legislatively mandated reporting requirements, the Higher Education Policy Commission requires a business plan for each research area. APPENDIX A reflects the anticipated use of the money available to spend in FY19.

In FY18, \$8,755,080 of Research Trust Fund dollars, both that from private accounts and matching state accounts, was spent on research – for scholarships, fellowships, prominent scholars, and in support of ongoing research initiatives.

For FY19, \$13,724,061 will be available. This number includes the proceeds from each private endowment and its equivalent state matching endowment plus any unspent money from the preceding year. Of this amount, \$4,250,034 will come from interest earned on both the private endowments and that from the matching state endowments established from the Research Trust Fund; \$9,474,027 will come from unspent funds from the previous year. The significant amount of interest dollars reflects the positive impact of the stock market and the fact that all endowments are fully funded. All funds for each endowment are distributed according to the intent of the respective endowment.

WVU looks forward to the significant and sustained impact that programs supported by the Research Trust Fund will have on addressing some of the state’s and the nation’s most important issues in education, energy, health care and security.

WVU Research Trust Fund

Annual Report thru Fiscal Year 2018

| Fund ID | Fund Description | Budget Division | Unit | Budget through FY18 Spend | Expenses through CLS-2018 | Balance through FY18 | FY19 Spend | Balance Forward |
|---------|--|--|---|---------------------------|---------------------------|----------------------|---------------|-----------------|
| R085 | Frederick P. Jr. & Joan C. Stamp Cancer Research | Cancer Center(CAN) | Cancer Center (CAN) | \$ 102,487.06 | \$ 87,142.18 | \$ 15,344.88 | \$ 17,528.34 | \$ 32,873.22 |
| R095 | Norma Mae Huggins Cancer Research Endowment | Cancer Center(CAN) | Cancer Center (CAN) | \$ 261,621.97 | \$ 243,996.82 | \$ 17,625.15 | \$ 79,492.32 | \$ 97,117.47 |
| R100 | Walter H. Moran Jr. General Surgery Resident Research | Medicine(MED) | Medicine (MED) | \$ 135,755.59 | \$ 498.50 | \$ 135,257.09 | \$ 19,512.90 | \$ 154,769.99 |
| R103 | Schoepp Neuroscience Research Student Support | Medicine(MED) | Medicine (MED) | \$ 30,800.15 | \$ 19,310.73 | \$ 11,489.42 | \$ 6,247.01 | \$ 17,736.43 |
| R106 | Verizon WV for Biometrics | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 164,544.23 | \$ 166,490.79 | \$ (1,946.56) | \$ 29,534.79 | \$ 27,588.23 |
| R107 | Raymond Brooks Vanscoy Cancer Research Endowment | Cancer Center(CAN) | Cancer Center (CAN) | \$ 69,630.85 | \$ 54,251.24 | \$ 15,379.61 | \$ 18,677.19 | \$ 34,056.80 |
| R108 | Allen S. Pack Endowment for Mining Engineering | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 27,547.92 | \$ - | \$ 27,547.92 | \$ 5,945.27 | \$ 33,493.19 |
| R109 | L. Zane Shuck Laboratory Endowment in Nanobiotechnology | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 62,582.26 | \$ 38,688.81 | \$ 23,893.45 | \$ 11,774.61 | \$ 35,668.06 |
| R110 | Alpha Natural Resources Endowment for Energy Research | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 134,400.07 | \$ 52,479.27 | \$ 81,920.80 | \$ 35,011.11 | \$ 116,931.91 |
| R113 | Alan Susman Cortico-Basal Ganglionic Degeneration Research | Medicine(MED) | Medicine (MED) | \$ 66,918.04 | \$ - | \$ 66,918.04 | \$ 12,257.91 | \$ 79,175.95 |
| R114 | Blaine S. West Endowment for Civil and Environmental Engineering | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 75,253.62 | \$ 48,313.36 | \$ 26,940.26 | \$ 12,343.36 | \$ 39,283.62 |
| R115 | William J. Maier, Jr. Chair of Research | Health Sciences - Charleston Division(MCC) | Health Sciences - Charleston Division (MCC) | \$ 487,148.66 | \$ 39,189.92 | \$ 447,958.74 | \$ 116,396.16 | \$ 564,354.90 |
| R116 | Branson-Maddrell Endowed Professorship in Orthodontics | Dentistry(DEN) | Dentistry (DEN) | \$ 226,406.49 | \$ 137,426.88 | \$ 88,979.61 | \$ 52,614.42 | \$ 141,594.03 |

WVU Research Trust Fund

Annual Report thru Fiscal Year 2018

| Fund ID | Fund Description | Budget Division | Unit | Budget through FY18 Spend | Expenses through CLS-2018 | Balance through FY18 | FY19 Spend | Balance Forward |
|---------|--|---|---|---------------------------|---------------------------|----------------------|---------------|-----------------|
| R117 | George B. Bennett Dean's Research Opportunity Endowment | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 612,859.12 | \$ 400,329.18 | \$ 212,529.94 | \$ 118,743.74 | \$ 331,273.68 |
| R118 | E. Elizabeth Morgan Cancer Research | Cancer Center(CAN) | Cancer Center (CAN) | \$ 16,119.49 | \$ 11,408.28 | \$ 4,711.21 | \$ 3,129.08 | \$ 7,840.29 |
| R119 | Badzek Family Endowment for Nursing Research | Nursing(NSG) | Nursing (NSG) | \$ 13,202.70 | \$ 10,000.00 | \$ 3,202.70 | \$ 2,998.27 | \$ 6,200.97 |
| R120 | Ruth and Robert Kuhn Nursing Faculty Research | Nursing(NSG) | Nursing (NSG) | \$ 14,800.34 | \$ 2,348.08 | \$ 12,452.26 | \$ 2,939.66 | \$ 15,391.92 |
| R121 | Hall - de Graaf Endowment for Women in Science & Engineering | Arts & Sciences(A&S) | Arts & Sciences (A&S) | \$ 14,545.98 | \$ 4,739.44 | \$ 9,806.54 | \$ 2,912.23 | \$ 12,718.77 |
| R122 | Fithian Family Foundation #2/Behavioral Medicine-Psychiatry | Medicine(MED) | Medicine (MED) | \$ 50,479.75 | \$ 49,256.60 | \$ 1,223.15 | \$ 11,636.76 | \$ 12,859.91 |
| R123 | WVUH Evidence Based Practice Research Professorship/Nursing | Nursing(NSG) | Nursing (NSG) | \$ 188,629.61 | \$ 36,533.17 | \$ 152,096.44 | \$ 40,985.52 | \$ 193,081.96 |
| R124 | Grace C. Clements Speech Pathology and Audiology Research | Human Resources & Education(HRE) | Human Resources & Education (HRE) | \$ 25,498.06 | \$ 16,437.85 | \$ 9,060.21 | \$ 5,538.51 | \$ 14,598.72 |
| R125 | Virginia Oil and Gas Research Endowment for PNGE | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 31,235.81 | \$ 20,416.81 | \$ 10,819.00 | \$ 6,904.59 | \$ 17,723.59 |
| R126 | Michael Baker Corporation Endowment/CEE | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 35,698.01 | \$ 19,267.78 | \$ 16,430.23 | \$ 8,797.11 | \$ 25,227.34 |
| R127 | Darrell & Diane Williams Research for PNGE | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 26,213.63 | \$ 14,513.11 | \$ 11,700.52 | \$ 5,732.41 | \$ 17,432.93 |
| R128 | Preservati Cancer Research | Cancer Center(CAN) | Cancer Center (CAN) | \$ 73,277.60 | \$ 47,632.37 | \$ 25,645.23 | \$ 17,080.54 | \$ 42,725.77 |
| R129 | Martha Gaines & Russell Wehrle Pediatric Research Endowment | Qualifying - Biological, Biotech & Biomedical | Health Sciences - Charleston Division (MCC) | \$ 24,066.13 | \$ 8,300.82 | \$ 15,765.31 | \$ 5,817.66 | \$ 21,582.97 |

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| Fund ID | Fund Description | Budget Division | Unit | Budget through FY18 Spend | Expenses through CLS-2018 | Balance through FY18 | FY19 Spend | Balance Forward |
|---------|--|---|---------------------------------------|---------------------------|---------------------------|----------------------|---------------|-----------------|
| R130 | E. Jane Martin Research Doctoral Fund | Nursing(NSG) | Nursing (NSG) | \$ 12,936.85 | \$ 1,000.00 | \$ 11,936.85 | \$ 2,946.42 | \$ 14,883.27 |
| R131 | John T. & June R. Chambers Chair of Oncology Research | Cancer Center(CAN) | Cancer Center (CAN) | \$ 347,866.13 | \$ 242,498.45 | \$ 105,367.68 | \$ 85,803.93 | \$ 191,171.61 |
| R132 | Christopher Cline Chair in Orthopedic Surgery | Medicine(MED) | Medicine (MED) | \$ 1,018,516.74 | \$ 677,971.33 | \$ 340,545.41 | \$ 233,836.22 | \$ 574,381.63 |
| R133 | Mabel C. Phares Leukemia Research Endowment | Cancer Center(CAN) | Cancer Center (CAN) | \$ 242,274.89 | \$ 190,019.77 | \$ 52,255.12 | \$ 40,651.33 | \$ 92,906.45 |
| R134 | Gary and Lisa Christopher Graduate Fellowship | Qualifying - Interdisciplinary | Engineering & Mineral Resources (EMR) | \$ 49,637.72 | \$ 27,339.70 | \$ 22,298.02 | \$ 14,268.69 | \$ 36,566.71 |
| R135 | WV United Health System Evidence-Based Nursing Practice Res. | Nursing(NSG) | Nursing (NSG) | \$ 19,888.84 | \$ 15,102.16 | \$ 4,786.68 | \$ 4,908.00 | \$ 9,694.68 |
| R136 | Mike Ross Family Pediatric Diabetes Research Endowment | Qualifying - Biological, Biotech & Biomedical | Medicine (MED) | \$ 197,963.69 | \$ 10,434.24 | \$ 187,529.45 | \$ 47,145.86 | \$ 234,675.31 |
| R137 | Van Wyk Cancer Research Endowment | Cancer Center(CAN) | Cancer Center (CAN) | \$ 11,389.18 | \$ 8,234.21 | \$ 3,154.97 | \$ 2,914.76 | \$ 6,069.73 |
| R138 | Robert T. Bruhn Physics Research Endowment | Arts & Sciences(A&S) | Arts & Sciences (A&S) | \$ 29,355.40 | \$ - | \$ 29,355.40 | \$ 6,093.51 | \$ 35,448.91 |
| R139 | Women in Science and Engineering Giving Circle Endowment | Qualifying - Interdisciplinary | Arts & Sciences (A&S) | \$ 12,696.43 | \$ 3,364.67 | \$ 9,331.76 | \$ 2,934.86 | \$ 12,266.62 |
| R140 | Jarrett Family Research Endowment for Dentistry | Dentistry (DEN) | Dentistry (DEN) | \$ 50,893.01 | \$ 16,042.29 | \$ 34,850.72 | \$ 11,628.97 | \$ 46,479.69 |
| R141 | Donald R. & Linda E. Holcomb Research Endowment Dentistry | Qualifying - Biological, Biotech & Biomedical | Dentistry (DEN) | \$ 40,658.61 | \$ - | \$ 40,658.61 | \$ 11,458.77 | \$ 52,117.38 |
| R142 | Arch Coal Inc. Endowment for Mine Health & Safety Research | Engineering & Mineral Resources (EMR) | Engineering & Mineral Resources (EMR) | \$ 118,912.07 | \$ 37,553.35 | \$ 81,358.72 | \$ 31,003.45 | \$ 112,362.17 |

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|---------|---|---|---------------------------------------|---------------------------|---------------------------|----------------------|-----------------|-----------------|
| R143 | Shaw Pathology Research | Qualifying - Biological, Biotech & Biomedical | Medicine (MED) | \$ 26,310.31 | \$ 2,430.00 | \$ 23,880.31 | \$ 5,901.62 | \$ 29,781.93 |
| R144 | Dr. Mohindar S. Seehra Research Award | Arts & Sciences (A&S) | Arts & Sciences (A&S) | \$ 15,392.97 | \$ 1,264.00 | \$ 14,128.97 | \$ 2,927.72 | \$ 17,056.69 |
| R145 | Oleg D. & Valentina P. Jefimenko Library Resources #2 | Library (LIB) | Library (LIB) | \$ 96,392.32 | \$ 96,392.30 | \$ 0.02 | \$ 15,906.99 | \$ 15,907.01 |
| R146 | Frank and Susan Klatskin Cerminara Endowment | Qualifying - Interdisciplinary | Engineering & Mineral Resources (EMR) | \$ 19,639.29 | \$ 10,533.40 | \$ 9,105.89 | \$ 5,849.18 | \$ 14,955.07 |
| R147 | Nesselroad Family Glaucoma Research | Qualifying - Biological, Biotech & Biomedical | Medicine (MED) | \$ 31,058.81 | \$ 10,442.38 | \$ 20,616.43 | \$ 8,195.76 | \$ 28,812.19 |
| R148 | Salvatore and Josephine Cilito Research Enhancement | Qualifying - Interdisciplinary | Engineering & Mineral Resources (EMR) | \$ 14,493.76 | \$ 11,212.00 | \$ 3,281.76 | \$ 4,461.26 | \$ 7,743.02 |
| R149 | Statler Research Endowment | Engineering & Mineral Resources (EMR) | Engineering & Mineral Resources (EMR) | \$ 4,128,043.61 | \$ 1,164,519.79 | \$ 2,963,523.82 | \$ 1,153,700.17 | \$ 4,117,223.99 |
| R150 | WVU School of Medicine Research Endowment | Qualifying - Biological, Biotech & Biomedical | Medicine (MED) | \$ 182,185.99 | \$ - | \$ 182,185.99 | \$ 43,167.98 | \$ 225,353.97 |
| V813 | Quad/Graphics Chair in Internal Medicine, Eastern Division | Health Science East(HSE) | Health Science East (HSE) | \$ 575,411.21 | \$ 130,630.77 | \$ 444,780.44 | \$ 115,566.29 | \$ 560,346.73 |
| V815 | James H. Walker Chair of Pediatric Cardiology | Medicine(MED) | Medicine (MED) | \$ 237,492.99 | \$ 172,606.72 | \$ 64,886.27 | \$ 39,414.36 | \$ 104,300.63 |
| V824 | James A. Kent Endowment for Biomedical Engineering | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 105,247.07 | \$ 95,328.94 | \$ 9,918.13 | \$ 20,634.35 | \$ 30,552.48 |
| V828 | Osborn Professorship in Hematological Malignancies Research | Cancer Center(CAN) | Cancer Center (CAN) | \$ 413,482.62 | \$ 322,432.03 | \$ 91,050.59 | \$ 74,708.84 | \$ 165,759.43 |
| V829 | BrickStreet Neurology Fellowship | Medicine(MED) | Medicine (MED) | \$ 57,001.80 | \$ - | \$ 57,001.80 | \$ 11,703.83 | \$ 68,705.63 |

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|---------|--|---|---|---------------------------|---------------------------|----------------------|---------------|-----------------|
| V830 | Robert E. Murray Chairmanship Mining Engineering Department | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 609,193.62 | \$ 405,228.90 | \$ 203,964.72 | \$ 117,600.19 | \$ 321,564.91 |
| V833 | Rita Radcliff-Deppe & Brian Deppe Fellowship Award | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 22,663.33 | \$ 3,179.97 | \$ 19,483.36 | \$ 4,920.67 | \$ 24,404.03 |
| V835 | Energy Materials Science & Engineering Facilities Support | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 760.00 | \$ - | \$ 760.00 | \$ - | \$ 760.00 |
| V841 | Oleg D. and Valentina P. Jefimenko Library Resources | Library(LIB) | Library (LIB) | \$ 116,044.44 | \$ 116,044.43 | \$ 0.01 | \$ 23,464.03 | \$ 23,464.04 |
| V842 | Oleg D. and Valentina P. Jefimenko Physics Fellowship | Arts & Sciences(A&S) | Arts & Sciences (A&S) | \$ 27,269.37 | \$ 6,986.95 | \$ 20,282.42 | \$ 4,396.64 | \$ 24,679.06 |
| V844 | Bowlby Wood Science Graduate Research Fellowship | Agriculture & Forestry(AGR) | Agriculture & Forestry (AGR) | \$ 253,574.79 | \$ 200,082.18 | \$ 53,492.61 | \$ 62,243.42 | \$ 115,736.03 |
| V850 | James P. Boland, M.D. Department of Surgery Endowed Research | Qualifying - Biological, Biotech & Biomedical | Health Sciences - Charleston Division (MCC) | \$ 150,695.71 | \$ - | \$ 150,695.71 | \$ 32,716.65 | \$ 183,412.36 |
| V854 | WVU Ruby Scholars Graduate Research Fellowships | Academic Affairs(AAR) | Academic Affairs (AAR) | \$ 2,972,832.79 | \$ 1,496,634.61 | \$ 1,476,198.18 | \$ 607,423.23 | \$ 2,083,621.41 |
| V858 | Robert E. Pyle Chemical Engineering Graduate Fellowship | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 30,036.64 | \$ 23,711.65 | \$ 6,324.99 | \$ 5,917.73 | \$ 12,242.72 |
| V859 | James & Ruby Romano Civil & Environmental Engineering End. | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 210,028.15 | \$ 155,867.19 | \$ 54,160.96 | \$ 41,251.48 | \$ 95,412.44 |
| V880 | Robert & Stephany Ruffolo Pharmacy Graduate Fellowship | Pharmacy(PHR) | Pharmacy (PHR) | \$ 18,777.23 | \$ 8,000.00 | \$ 10,777.23 | \$ 5,761.12 | \$ 16,538.35 |
| V882 | James and Betty Hall Fellowship | Qualifying - Interdisciplinary | Engineering & Mineral Resources (EMR) | \$ 41,315.64 | \$ 17,883.38 | \$ 23,432.26 | \$ 11,674.29 | \$ 35,106.55 |
| V886 | Stuart M. & Joyce N. Robbins Distinguished Prof/Epidemiology | Qualifying - Biological, Biotech & Biomedical | Health Sciences Center (HSC) | \$ 436,328.64 | \$ 149,278.14 | \$ 287,050.50 | \$ 115,619.13 | \$ 402,669.63 |

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|-------------------------------|---|---|---------------------------------------|---------------------------|---------------------------|------------------------|------------------------|-------------------------|
| V887 | Academy of Chemical Engineers Graduate Fellowship | Engineering & Mineral Resources(EMR) | Engineering & Mineral Resources (EMR) | \$ 67,285.28 | \$ 22,637.38 | \$ 44,647.90 | \$ 18,477.40 | \$ 63,125.30 |
| V892 | J.F. Brick Chair in Neurology | Qualifying - Biological, Biotech & Biomedical | Medicine (MED) | \$ 763,396.44 | \$ 557,826.36 | \$ 205,570.08 | \$ 174,436.10 | \$ 380,006.18 |
| V894 | Jack and Marietta Mullenger Fellowship | Qualifying - Biological, Biotech & Biomedical | Engineering & Mineral Resources (EMR) | \$ 11,321.24 | \$ 3,179.97 | \$ 8,141.27 | \$ 3,076.47 | \$ 11,217.74 |
| V900 | Research Trust Fund Jefimenko Professorship in Physics | Qualifying - Interdisciplinary | Arts & Sciences (A&S) | \$ 120,725.89 | \$ 91,591.30 | \$ 29,134.59 | \$ 35,632.10 | \$ 64,766.69 |
| W762 | Cyber Physical System Center | WVU Institute of Technology | WVU Institute of Technology | \$ 19,999.78 | \$ 22,174.32 | \$ (2,174.54) | \$ - | \$ (2,174.54) |
| | | | Sub-Totals | \$ 16,899,114.43 | \$ 8,056,631.22 | \$ 8,842,483.21 | \$ 3,912,895.24 | \$ 12,755,378.45 |
| Financial Aid Accounts | | | | | | | | |
| Z232 | Wells Fargo Energy Group Scholarship | Financial Aid(FAD) | Engineering & Mineral Resources (EMR) | \$ 50,299.85 | \$ 14,500.00 | \$ 35,799.85 | \$ 10,487.38 | \$ 46,287.23 |
| Z238 | Benjamin James Galford Research Scholarship | Financial Aid(FAD) | Arts & Sciences (A&S) | \$ 45,113.06 | \$ 38,318.00 | \$ 6,795.06 | \$ 11,564.01 | \$ 18,359.07 |
| Z245 | Carl Del Signore Foundation Graduate Fellowship | Financial Aid(FAD) | Academic Affairs (AAR) | \$ 27,643.29 | \$ 12,500.00 | \$ 15,143.29 | \$ 5,794.52 | \$ 20,937.81 |
| Z247 | George M. & Mary Freda Vance Medical Scholarship-Fellowship | Financial Aid(FAD) | Cancer Center (CAN) | \$ 262,751.81 | \$ 228,450.61 | \$ 34,301.20 | \$ 44,111.30 | \$ 78,412.50 |
| Z277 | William S. Clapper Mechanical & Aerospace Engineering Scholarship | Financial Aid(FAD) | Engineering & Mineral Resources (EMR) | \$ 31,014.98 | \$ 28,738.00 | \$ 2,276.98 | \$ 5,942.84 | \$ 8,219.82 |
| Z279 | Everette C. Dubbe Research Scholarship | Financial Aid(FAD) | Engineering & Mineral Resources (EMR) | \$ 54,606.12 | \$ 44,800.00 | \$ 9,806.12 | \$ 11,676.38 | \$ 21,482.50 |

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|-------------------|---|--------------------------------|---------------------------------------|---------------------------|---------------------------|----------------------|----------------------|----------------------|
| Z282 | Oleg D. and Valentina P. Jefimenko Physics Scholarship | Qualifying - Interdisciplinary | Financial Aid (FAD) | \$ 19,537.21 | \$ 17,000.00 | \$ 2,537.21 | \$ 3,282.10 | \$ 5,819.31 |
| Z326 | James Bergen and Randy Monteith Anderson Scholarship in MAE | Financial Aid(FAD) | Engineering & Mineral Resources (EMR) | \$ 12,482.54 | \$ 10,075.00 | \$ 2,407.54 | \$ 2,889.42 | \$ 5,296.96 |
| Z329 | Morton Scholarship | Financial Aid(FAD) | Engineering & Mineral Resources (EMR) | \$ 52,899.54 | \$ 39,500.00 | \$ 13,399.54 | \$ 13,210.29 | \$ 26,609.83 |
| Z333 | David VanDorn Sutton Scholarship | Financial Aid(FAD) | Financial Aid (FAD) | \$ 196,894.56 | \$ - | \$ 196,894.56 | \$ 46,198.10 | \$ 243,092.66 |
| Z337 | William "Bill" Closser Memorial Electrical Engineering Sch. | Qualifying - Interdisciplinary | Financial Aid (FAD) | \$ - | \$ - | \$ - | \$ - | \$ - |
| Z339 | Morrissey-Ropp Scholarship | Financial Aid(FAD) | Arts & Sciences (A&S) | \$ 34,647.74 | \$ 35,851.00 | \$ (1,203.26) | \$ 8,569.51 | \$ 7,366.25 |
| Z341 | Martha Hopkins Hashinger Scholarship | Financial Aid(FAD) | Engineering & Mineral Resources (EMR) | \$ 13,443.34 | \$ 10,980.00 | \$ 2,463.34 | \$ 3,181.70 | \$ 5,645.04 |
| Z364 | Research Trust Fund Taylor Endowment | Qualifying - Interdisciplinary | Engineering & Mineral Resources (EMR) | \$ 10,693.31 | \$ 1,050.00 | \$ 9,643.31 | \$ 3,604.62 | \$ 13,247.93 |
| Z365 | Mitchell-Morey Family Endowed Scholarship | Qualifying - Interdisciplinary | Financial Aid (FAD) | \$ 9,162.45 | \$ - | \$ 9,162.45 | \$ 3,373.49 | \$ 12,535.94 |
| Z368 | Statler Research Scholars Program | Qualifying - Interdisciplinary | Financial Aid (FAD) | \$ 282,897.52 | \$ 206,686.00 | \$ 76,211.52 | \$ 113,972.98 | \$ 190,184.50 |
| Z372 | William E. & Bonniegail Kucan Coleman Research Scholarship | To Be Determined | Financial Aid (FAD) | \$ 6,193.27 | \$ 10,000.00 | \$ (3,806.73) | \$ 1,144.53 | \$ (2,662.20) |
| Z375 | Bettie D. Gallaher Research Fellowship | Qualifying - Interdisciplinary | Financial Aid (FAD) | \$ 219,712.02 | \$ - | \$ 219,712.02 | \$ 48,135.66 | \$ 267,847.68 |
| Sub-Totals | | | | \$ 1,329,992.61 | \$ 698,448.61 | \$ 631,544.00 | \$ 337,138.83 | \$ 968,682.83 |

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|-----------------|------------------|-----------------|------|------------------------------|------------------------------|-------------------------|-----------------|------------------|
| | | | | | | | | |
| Combined Totals | | | | \$ 18,229,107.04 | \$ 8,755,079.83 | \$ 9,474,027.21 | \$ 4,250,034.07 | \$ 13,724,061.28 |