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| *FY2019 Pending Grant Proposals to Date: (May 2019)*  Submitted and awaiting decision on award.  Total current pending proposals to date: $3,980,515 |
| **NIH West Virginia INBRE One Year Transitional Award Program, $72,500 for one year: August 1, 2019 – July 31, 2020**  ***Improving Cancer Management Involving Targeted Therapy and Radiotherapy via Modeling and Simulation***  Proposal requests funding to support research to further develop modeling and computational tools to better understand the potential synergistic therapeutic benefit of radiotherapy and anti-CTLA antibody therapy for certain types of breast cancer, and ultimately produce tools that would improve clinical treatment outcomes for breast cancer patients. The proposed project will be led by Dr. Qing Wang, Professor of Mathematics. |
| **NEH Summer Institutes for Teachers Program, $158,306 for 1 year: October 1, 2019 – December 31, 2020**  ***Voices of the Misty Mountains and the Power of Storytelling: Appalachian History and Culture***  Proposal requests funding to support a summer program for 25 K-12 teachers from across the U.S. to attend a three-week immersive program hosted at Shepherd. The project brings several prominent humanities scholars to Shepherd to lead events, discussions and projects with participants that will influence and enhance the study and representation of Appalachian culture in K-12 curriculum. The proposed project will be led by Dr. Sylvia Shurbutt, Professor of English. |
| **NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Program:**  **$999,986 for 5 years: July 1, 2019 – June 30, 2014**  ***Advancing Academic Success and Career Development for Computer Science, Mathematics, and Engineering (CSME) Majors***  Proposal requests funding to support a total of 85 scholarships for academically-talented students demonstrating financial need who are majoring in CSME. The proposed project also supports programs and resources to enhance their success and persistence in their degree programs at Shepherd. The proposed project will be led by Dr. Qing Wang, Professor of Mathematics. |
| **NIH West Virginia INBRE Cancer Biology Grant Program, $43,500 for 1 year: September 1, 2019 – August 31, 2020**  ***Potential Synergistic Effect of Anti-Nodal Treatment of TNC Breast Cancers***  Proposal requests funding to support research that will create 3D models of cell cultures to better represent tumor biology in order to assess potential immunotherapy/chemotherapy outcomes and prepare/culture genetic material for sequencing to determine if a potential shift in cell line genomics exists. Funding will support faculty and undergraduate student research activity as well as necessary supplies and materials and sequencing services from the WV INBRE Core Facility. The proposed project will be led by Dr. Robert Warburton, Dean and Professor of Biochemistry and Jason Rafe Miller, Assistant Professor of Computer Science. |

**HRSA Advanced Nursing Education Workforce (ANEW) Program, $2,697,023 for 4 years: July 1, 2019 – June 30, 2023**

***Innovative Modalities for Rural Nurse Practitioner Education and Collaboration to Transcend Health Disparities (IMPACT) Program***

Proposal requests funding to support 15 scholarships and stipends (totaling $20,000 per student) per year for D.N.P. students, salary support for participating faculty, travel support and equipment purchases. If funded, this award will enable Shepherd to establish clinical training partnerships in the region that will provide longitudinal experiences delivering care to rural and underserved patient populations. The project will also include experiential training delivering alternative pain management through photobiomodulation and delivering/expanding patient access to care via cutting-edge telemedicine modalities. The proposed project will be led by Dr. Kelly Watson Huffer, Assistant Professor in the Department of Nursing Education.

**Maryland Humanities Council Major Grants Program, $9,200 for 1 year: September 1, 2019 – August 31, 2020**

***The Maryland Loyalism Project***

Proposal requests funding to support creation of a digital archive of 82 loyalist women and men from Maryland who petitioned Parliament for financial compensation after the American Revolution.

Funding would enable faculty and undergraduate students to digitize relevant volumes of the Loyalist Claims Commission records held in the Audit Office and Treasury Papers at the British National Archives and, for the first time, publish these sources alongside loyalist land confiscation sources housed in the Maryland State Archives. The proposed project will be led by Dr. Benjamin Bankhurst, Assistant Professor of History.

*FY2019 Awarded Grant Proposals to Date: (May 2019)*

Total awarded proposals to date for FY2018-2019: $1,113,823

**NASA West Virginia Space Grant Consortium: Three grants awarded totaling $14,977 for 1 year: May 1, 2019 – April 30, 2020**

Three proposals were awarded from NASA West Virginia Space Grant Consortium providing funding to support the following projects: (1) Course Development funding to support the development of a Genomics and Bioinformatics Lecture and Laboratory course led by Professor Sher Hendrickson ($4,977); (2) Course Development funding to support the development of a Sensor Data Analytics course led by Professor Ralph Wojtowicz ($5,000); and (3) Education and Public Outreach funding to support the Seeding Your Future annual conference hosted at Shepherd to engage and inspire middle school girls to pursue studies in STEM, led by Professor Sytil Murphy ($5,000).

**NSF EPSCoR Instrumentation Grant Program, $20,000 for 1 year: December 1, 2018 – November 31, 2019**

***High-Accuracy Instrumentation for Unmanned Aerial Vehicle (UAV) Surveys***

Proposal, submitted by Professor Steven Shaffer from the Institute of Environmental and Physical Sciences, received funding to purchase devices to enable the existing UAVs used by the Environmental Geomatics and Geographic Information Systems programs to dramatically increase the accuracy of UAV ground surveys enhancing research capabilities and educational impact for the department.

**NSF EPSCoR Innovation Grant Program, $40,000 for 1 year: January 1, 2019 – December 31, 2019**

1. ***Ray Fluorescence (XRF) Analyzer for Teaching and Research Applications at Shepherd***

Funding will be used to purchase a device and research materials for determining elemental composition of material samples from an arc melting system. Dr. Mohammadreza Ghahremani, Assistant Professor of Computer Science and Mathematics, proposes to use the device for both magnetic refrigeration technology research and instruction in materials science, electromagnetics and nanotechnology.

**University of Oslo Collaboration Grant, $35,000 for 3 years: June 1, 2018 – May 31, 2021; FY2019:**

**$11,667**

***The Role of Small RNAs in Genomic Imprinting and Hybrid Barriers***

Shepherd entered into a collaborative research project with the University of Oslo that provides support for Jason Miller, Visiting Professor of Computer and Information Sciences, and students to perform bioinformatics analyses critical to the research.

**WVU Research Corporation Subcontract from TaiRx, Inc., $5,760 for 1 year: July 1, 2018 – June 30, 2019**

***Evaluation of Humanized 3D1 Anti-Nodal Antibodies***

Funding supports direct costs related to Dr. Hendrix’s role as Co-PI on this project, including proposal research and experiment design and interpretation.

**West Virginia Bureau of Senior Services, $2,500 for 1 year: July 1, 2018 – June 30, 2019**

***Aging Well Workshop at Shepherd***

Funding supports program costs for the 2018 Aging Well Workshop led by Dr. Heidi Dobish, Associate Professor of Psychology.

**EBSCO Solar Grant, $100,000 for June 2018**

***Scarborough Library Solar Project: Advancing Sustainability on Campus and in Our Community***

Proposal seeks one of three $100,000 awards offered to libraries with EBSCO subscriptions. Awards support acquisition and installation costs for solar systems that will offset utility costs and enhance educational opportunities for libraries selected for an award. Project Directors: Rachel Hally, Coordinator of Collections in the Scarborough Library, and Dr. Jeff Groff, Associate Professor of Physics and Chair, Institute of Environmental and Physical Sciences.

**USDA Natural Resource Conservation Service (NRCS) Conservation Technical Assistance Program,**

**$300,000 for 5 years: May 1, 2018 – April 30, 2023; FY2019: $60,000**

***Veterans to Agriculture Program at Shepherd***

Proposal requests funding for equipment, supplies and salary support to launch an agricultural training program at Tabler Farm. Training programs in development include courses in agricultural sciences and techniques as well as marketing and business management courses to complement existing degree programs and potentially create certification programs. Programs will target veterans in the region in need of retraining opportunities, but will be available to the general public as well as existing and potential Shepherd students. Project Director: Dr. Peter Vila, Associate Professor, Institute of Environmental and Physical Sciences.

**West Virginia Idea Network of Biomedical Research Excellence (WV-INBRE), $288,000 for 2 years: August 1, 2017 – July 30, 2019; FY2019: $144,000**

***Effects of an Anti-Nodal Antibody in Metastatic Melanoma by Modeling and Simulation***

Funding supports continuing research to develop a mathematical model to help predict and enhance understanding of how a certain gene influences metastatic melanoma tumor growth and response to chemotherapy. Lead Principal Investigator: Qing Wang, Ph.D., Associate Professor, Computer Science and Mathematics.

**Department of Education (DOE) Upward Bound Program, $1,287,500 for 5 years: September 1, 2017**

* **August 31, 2022; FY2019: $275,155 (4.25% increase to award for current year included)**

***Shepherd University Application for the 2017 TRiO Upward Bound Program***

Awarded funds expand efforts by the existing federally-funded TRiO Student Support Services staff to create a pipeline to Shepherd for high school students in the region through a summer residential program on campus and weekend programs throughout the academic year. Nationally, Upward Bound programs demonstrate success in creating a path to college attendance for first-generation college students, and typically more than half of Upward Bound participants enroll at their host campus after graduating from high school. This proposed program extends the purview of TRiO staff from just retention efforts to outreach and recruitment of future Shepherd students. Lead Project Director: Cynthia Copney, M.A.

**DOE Student Support Services Program, $921,001 for 5 years: September 1, 2015 – August 31, 2020; FY2019: $242,146 (4.25% increase to award for current year included)**

***Shepherd University’s TRiO Student Support Services Program***

Awarded funds support staff salaries and programmatic offerings for Shepherd students who meet criteria for need. The program offers mentoring, academic counseling and tutoring services for participating students, increasing student persistence and success in college. Lead Project Director: Cynthia Copney, M.A.

**National Endowment for the Humanities (NEH): $151,773 for one year: October 1, 2017 – December 31, 2018; FY2019: $123,469**

***2018 NEH Summer Institute for School Teachers: Voices from the Misty Mountains***

Funding supports another annual NEH-sponsored Institute providing lectures, workshops, events and regional travel for 25 teachers selected from a pool of applicants from across the nation. The three-week program, hosted at Shepherd, delves into the diversity and richness of Appalachian literature and culture. Lead Project Director: Sylvia Shurbutt, Ph.D., Professor, English and Modern Languages

**NASA West Virginia EPSCoR Research Seed Grant, $10,000 for 1 year: May 16, 2018 – May 15, 2019**

***Cooling System for Aerospace Applications and Detectors***

Funding provides support for research investigating properties of nanoparticle magnetic materials for potential use in cryogenic refrigerators for specialized use in aerospace applications. Principal Investigator, Mohammadreza Ghahremani, Ph.D., Assistant Professor, Computer Information Systems

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| **National Park Service (NPS), C&O Canal National Historical Park Historic Structures Report,**  **$56,749 for 1 year: August 1, 2018 – July 31, 2019**  ***Documenting the History of the African American Experience at Ferry Hill, The Blackford House and the Bridgeport Community***  Shepherd recently became a member of the Chesapeake Watershed Association (CHWA) regional segment of a Cooperative Ecosystem Studies Unit (CESU) under the NPS, which made Shepherd eligible for this opportunity that was only available to CESU members. Funding provides support for Shepherd faculty and students to conduct research leading to a historic structures report and a historic resource study focused on African American History as it relates to Ferry Hill. Principal Investigator, James Broomall, Ph.D., Assistant Professor of History and Director of the Civil War Center, Co-PIs Keith Alexander, Associate Professor of History and Benjamin Bankhurst, Ph.D., Assistant Professor of History |
| **Eastern West Virginia Community Foundation Helen Parker Willard Jefferson County Historic Cemetery Grant, $4,400 to be utilized between March 10, 2018 – December 1, 2018**  ***Historic Cemetery Preservation and Service Learning***  Funding supports supplies and equipment enabling expansion of cemetery preservation and documentation activities that are central to the service-learning aspect of Shepherd’s Historic Preservation concentration offered by the Department of History. Project Director, Keith Alexander, Associate Professor of History |
| **Jefferson County Historical Society Community Grant Program, $3,000 to be utilized between April 1, 2018 – December 31, 2018**  ***Window Restoration for the Weltzheimer House***  Funding supports continuing work and associated educational opportunities focused on the restoration and preservation of Shepherd’s Weltzheimer House. Project Director, Keith Alexander, Associate Professor of History |