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| *FY2019 Pending Grant Proposals to Date: November2018*Submitted and awaiting decision on award.Total current pending proposals to date: $490,990 |
| **West Virginia Humanities Council Mini Grant, $925 for 1 event in March 2019*****Shepherd University Hosting the 27th Annual West Virginia Undergraduate Literary Symposium***Proposal requests funding to support hosting the West Virginia Undergraduate Literary Symposium at Shepherd in March 2019. The annual symposium attracts college and university students from across the state to present and receive recognition for their scholarly work in literary analysis. The symposium has been a West Virginia tradition for nearly 30 years. Drs. Timothy Nixon and Heidi Hanrahan from the Department of English and Modern Languages were instrumental in bringing the event to Shepherd for 2019 -- the first year Shepherd will host the symposium. |
| **NEH Summer Fellowship Program, $6,000 for 1 year: May 1, 2019 – April 30, 2020*****De-mock-ratiyya: Humor, History, Protest, and Conflict in Algeria, 1988-2005***Requested funding would support scholarly work during summer 2019 for Dr. Elizabeth Perego, Assistant Professor of History, to complete her book studying the significance of humor in understanding the broader human experience under authoritarianism, oppression and times of conflict and uprising in Algeria during the “Dark Decade” of 1988-2005. |
| **USDA Agriculture and Food Research Initiative Competitive Grants Program, $484,065 for 4 years: June 1, 2019 – May 31, 2023*****Spatiotemporal Monitoring of Honey Bee Colony Temperature to Determine Colony Health and Advance Understanding of Colony Temperature Regulation***Proposal requests funding to support research, led by Dr. Jeff Groff, Associate Professor of Physics and Chair of the Institute of Environmental and Physical Sciences, to develop instrumentation that will wirelessly monitor three-dimensional temperature variations within honey bee hives, enabling close monitoring and greater understanding of bee colony behavior and health. This perspective could ultimately aid in predicting circumstances threatening bee colony collapse, allowing for corrective interventions that could significantly improve success in pollinator management. |
| *FY2019 Awarded Grant Proposals to Date: November 2018* Total awarded proposals to date for FY2018-2019: $1,222,931  |
| **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

##### X-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

##### 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 to 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.

#### Department of Agriculture, $168,685 for 1 year: October 1, 2017 – September 30, 2018

##### Supplemental Nutrition Assistance Program – Education (SNAP-Ed) at Shepherd

Awarded funds support outreach activities in designated regional schools to teach students about nutrition and healthy food choices. Lead Project Director: Julia Tracy, Adjunct Instructor, Health, Physical Education and Recreational Studies

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| **WV-INBRE, $28,369 for 1 year: August 1, 2017 – July 31, 2018*****Distributed File System B-Trees for Large-Scale Genomics Research***Funding supports the development of new computer algorithms and software that will enable efficient use of large bioinformatics and medical datasets. Research will support major discoveries in medical research that rely on dataset analysis including genome-wide association studies. Lead Principal Investigator: Dr. Ralph Wojtowicz, Associate Professor, CME |
| **West Viriginia 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. |
| **National Institute of Standards and Technology (NIST), $8,695 for 1 Fellowship: Summer 2018, May 21, 2018 – August 10, 2018*****Summer Undergraduate Research Fellowship (SURF)***One fellowship was awarded to Christian Burns, an undergraduate student in the College of Natural Sciences and Mathematics to assist with research in a NIST laboratory at the Gaithersburg campus. Fellowships provide housing and a $5,500 stipend for 11 weeks during the summer while selected participants from across the nation work closely with NIST mentors on research projects. |

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| **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*****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 |
| **WV Idea Network of Biomedical Research Excellence (WV-INBRE), $288,000 for 2 years: August 1, 2017 – July 30, 2019*****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: Dr. Qing Wang, Associate Professor, Computer Science Mathematics and Engineering (CME) |
| **National Endowment for the Humanities (NEH), $151,773 for 1 year: October 1, 2017 – December 31, 2018*****2018 NEH Summer Institute for School Teachers: Voices from the Misty Mountains***Funding supports the 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: Dr. Sylvia Shurbutt, Professor, English and Modern Languages |
| **NASA WV 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: Dr. Mohammadreza Ghahremani, Assistant Professor, Computer Information Systems |
| **Jefferson County Historical Society Community Grant Program, $3,000: 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 the house. Project Director: Dr. Keith Alexander, Associate Professor of History |

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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 us eligible for this CESU members only opportunity. 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: Dr. James Broomall, Assistant Professor of History and Director of the Civil War Center, and Co-PIs: Drs. Keith Alexander, Associate Professor of History, and Benjamin Bankhurst, Assistant Professor of History |
| **Eastern WV Community Foundation Helen Parker Willard Jefferson County Historic Cemetery Grant, $4,400: 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: Dr. Keith Alexander, Associate Professor of History |