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| *FY2019 Pending Grant Proposals to Date: March 2019*Submitted and awaiting decision on award. Total current pending proposals to date: $4,364,100  |
| **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. |

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| **NASA West Virginia Space Grant Consortium: Five grants submitted totaling $24,720 for 1 year:****May 1, 2019 – April 30, 2020**Five proposals submitted to NASA West Virginia Space Grant Consortium requesting funding to support: (1) Research Seed funding to support a conservation genomics project studying endangered Andean Condors led by Professor Sher Hendrickson ($9,743); (2) Course Development funding to support the development of a Genomics and Bioinformatics Lecture and Laboratory course led by Professor Sher Hendrickson ($4,977); (3) Course Development funding to support the development of a Sensor Data Analytics course led by Professor Ralph Wojtowicz ($5,000) and (4) 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). |
| **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. |
| **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: March 2019* Total awarded proposals to date for FY2018-2019: $1,163,033  |
| **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. |

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| **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 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. |
| **U.S. 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. |
| **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 |
| **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 |

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| **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 |
| **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 ultimately 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; FY 2019: $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 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 |

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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 |
| **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 |