



RADFORD UNIVERSITY

Sponsored Programs and Grants Management

FY 2017 Annual Report

STAFF DIRECTORY

Tom Cruise

Director
540.831.5035
tcruise@radford.edu

Cindy Gwinn

Assistant Director — Post-Award
540.831.5412
crgwinn@radford.edu

Martha Hall

Administrative Assistant
540.831.5035
mhall5@radford.edu

Tiffany Buck

Senior Grants Specialist
540.831.6589
tjbuck@radford.edu

Shirl Nolen

Pre-Award Administrator
540.831.5910
sanolen@radford.edu

Alicia Wyrick

Grants Specialist
540.831.7762
awyrick5@radford.edu

Ginger Williams

Proposal Development Manager
540.831.5912
gwilliams11@radford.edu

Tammie Duncan

Grants Specialist
540.831.7763
tduncan@radford.edu

Sponsored Programs and
Grants Management
232 Cook Hall
Web: www.radford.edu/spgm

TABLE OF CONTENTS

Our Services _____	4
Letter from Director _____	5
Mission _____	6
Featured Research _____	8
Total Awards By Year _____	18
Total Submissions By Year _____	19
Awards by Funding Source _____	20
Awards by Purpose _____	21
FY2017 Submission and Awards by Academic Unit _____	22
Submissions and Awards by First Time Faculty _____	24
Outreach _____	26
Million Dollar Awards _____	27
Internal Funding/Awardees _____	28
Proposal Submissions _____	30
Grants Awarded _____	38

OUR SERVICES

Take Advantage of the different services our office can provide during the grant process....

- Assistance in Finding Grant Opportunities
- Setting up and training for COS Pivot
- Review Agency Guidelines
- Budget Preparation for Grants
- Proofreading Grant Proposals for grammar and format
- Facilitate Multi-disciplinary teams
- Preparing application packages
- Help in obtaining internal approvals
- Submitting application to Sponsors
- Various Training Sessions & Workshops
- Negotiating Awards
- Establishing funding on the Institution's general ledger system.
- Post Award Management and accounting support.
- Assistance with Grant Compliance.

LETTER FROM DIRECTOR

Dear Colleagues,

It is our pleasure, to once again, present to you our Fiscal Year 2017 Annual Report, which highlights many of the wonderful, and historic, accomplishments led by our faculty, staff, and students as they worked tirelessly on submitting grant applications expanding on their innovative ideas and concepts that promotes and advances the University's research, instruction, and service.

Our office experienced a historic year for the total value of our proposal submissions, which was in excess of over \$29.6 million. This number represents two significant accomplishments for the University. The first accomplishment is a 150% increase over last year's total dollar amount submitted; and, the second accomplishment is the highest total value ever submitted by Radford University to external funding agencies. What an extraordinary accomplishment for our faculty, staff, and students who have worked very long hours writing the numerous proposal applications under very tight deadlines and time constraints. To each of our colleagues, I praise you for a job well done!

Another fantastic statistic to report is the number of total grant dollars that has been awarded to the University, which was over \$5.8 million. This numbers represents a 12% increase over last year's awards received. This truly reflects how competitive our proposals have become since these applications have attracted the interest of outside funding agencies, particularly from federal sources. As federal grant budgets remain uncertain in the near future, a 12% increase for Radford University is a wonderful accomplishment.

Through our core mission of proudly serving and supporting the university community in the pursuit of external funding, we sincerely hope our report of this year's past activities truly reflects the motivation, desire, and excellence of those who requested funding that further enhances our research and scholarship. So, congratulations once again to all our grant writers and awardees. We hope you enjoy reviewing our report and sharing with us these wonderful accomplishments that was on display throughout the past year. As always, please feel free to contact me should you have any comments, suggestions, or questions regarding the information contained in our report.

Respectfully Submitted,

Thomas W. Cruise, CRA
Director of Sponsored Programs and Grants Management
540-831-5035

MISSION

The Office of Sponsored Programs and Grants Management (SPGM) supports all faculty and staff in the pursuit of external funding that benefits the university and its students.

SPGM coordinates the solicitation and administration of grants, contracts, and cooperative agreements on behalf of the university. Our responsibilities include assisting faculty and staff in identifying potential funding opportunities; providing faculty/staff with development services through various forms of outreach; negotiating awards; overall post-award administration of grants and contracts awarded to the university, as well as suggestions of policies and procedures relating to such efforts.

Grants and contracts handled by SPGM are those funds received by the university for a specific purpose or program, under the direction from a member of the faculty community. Funding is usually geared towards research, public service, or instructional activities. However, other forms of funding can include curriculum development, faculty development, equipment and/or facility renovation, student fellowships, conferences and performances.



FEATURED RESEARCH

The Effect of Turmeric on Older Adults with Dementia



Dr. Jyotsna Sharman

With a high interest in integrative and functional medicine, Dr. Jyotsna Sharman and her research partner, Dr. Roofia Galeshi, an assistant professor in the School of Teacher Education and Leadership, are currently exploring the benefits of curcumin, which is a compound present in the culinary spice turmeric, in reducing or reversing cognitive and behavioral symptoms of dementia experienced by individuals diagnosed with Alzheimer's disease. After publishing a review article on therapeutic properties of turmeric, and conducting multiple focus groups of health care professionals and caregivers to explore the feasibility of conducting an interventional study, this research team is now planning to conduct a clinical trial on the older adults in the New River Valley.

They have investigated health-seeking behaviors of college students, and understanding that food-insecure students experience a higher rate of anxiety, depression, lack of motivation, and ultimately higher rate of dropout. Drs. Sharman and Galeshi are also in the process of partnering with other academic institutions to investigate the impact of food insecurity on students' nutritional status, incidence of obesity due to unhealthy food choices, overall health, learning outcomes, and retention in higher education. The planned study will include providing an evidence-based intervention consisting of delivering an educational seminar-style course to students on healthy eating, where the students will learn strategies for eating healthy on limited financial resources.

Rural Integrated Care Expansion Project

Radford University Counseling Psychology Program has received a Graduate Psychology Education (GPE) grant from the U.S. Department of Health and Human Services, Health Resources and Administration, to support training in integrated primary care. The grant period began July 1, 2016 and extends for three years. The \$863,118 award for the Rural Integrated Care Expansion Project is a partnership of the Radford University Doctoral Program in Counseling Psychology with Tri-Area Community Health (TACH) and the Community Health Center of the New River Valley (CHCNRV).



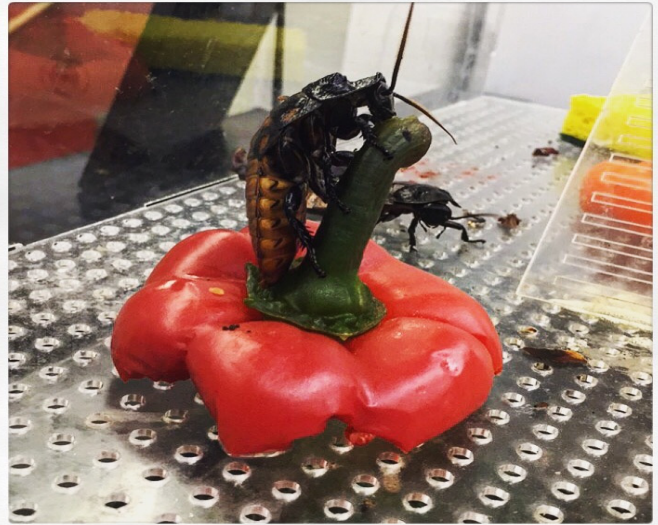
Dr. Sarah Hastings with PsyD Graduate Students

The goal of the project is to expand practicum training positions for doctoral students in psychology to enable eight students per year to develop skills to practice in rural underserved integrated primary care settings. Both of the project partner medical centers are Federally Qualified Health Centers (FQHC) operating in southwest Virginia providing care to rural underserved populations. Students will deliver brief behavioral health visits and work with long-term patients whose needs exceed the capacities of primary care, including those with substance use disorders and severe and persistent mental illnesses. The four overarching objectives of this project are as follows: (1) Students will be trained to operate as members of a behavioral health team collocated in a primary care practice environment, (2) Students will provide ongoing behavioral health treatment for patients with acute mental health diagnoses, including serious mental illness and substance use disorders, (3) Students will participate in regularly scheduled training alongside primary care providers, including physicians and nursing staff, (4) Practicum students will engage in community health interventions.

We believe this grant will enable Radford University to have a greater impact on the behavioral health care of underserved populations in the central Appalachian region and will equip students with skills to provide behavioral health care in primary care settings upon graduation from the program.

BioTransformer Project

A team of scholars including Iain Clelland (business), Jason Davis (biology), Laurie Bianchi (nutrition), Andrew Ray (computer science), and Nate Bicak (design) began developing the BioTransformer project in the summer of 2015. Coming together from disparate backgrounds, the team was brought together by a common interest in the problem of food waste. Food waste is a major, though lesser known, challenge for materials conservation. Based on some estimates, 30-40% of all food is wasted, ending up unused and uneaten, often moldering in landfills. As a result, food waste is a major contributor to soil and water pollution and to greenhouse gas emissions. On a financial level, the cost of producing, transporting, housing and eliminating food waste comes to a staggering \$218 billion per year.



The team rapidly came to the conclusion that the primary problem with food waste lies in transforming it efficiently into more usable materials, rather than burying it in the ground. This conversion process is far too complex to be effectively accomplished through artificial means, but natural organisms in the wild deal with the problem of biowaste on a daily basis. The team found themselves well-positioned to explore and expand on this natural process, working to harness it for human use. Work on the metabolic processes and mass-housing of hormonally modified Madagascar hissing cockroaches was already being conducted in the Davis lab, Bianchi's expertise in food science provided an ideal way of assessing food and waste nutrient content and the work of Ray and Bicak provided an ideal mechanism for developing custom-fabricated, computer integrated "smart housing" that could measure and modulate the input and output of the process. In combination with Clelland's expertise in market exploration and system analysis, the team was ideally situated to attack this problem.

After several fruitful meetings, the team finalized an overall goal of developing a sustainable insect-based system for the conversion of food waste into useable materials – specifically protein and fertilizer. In addition, the team sought to develop their work into a project incubator capable of spawning a variety of independent 'mini-projects' for both faculty and students. Incorporation of both scholarly inquiry and scientific exploration into the pursuit of a single solution facilitates a number of possible avenues for research and pedagogy, while still moving forward to the goal of improved food waste recycling. To undertake this task the faculty invited a multiple students from across several disciplines to join them in their work, forming a multilevel interdisciplinary, super-group.



The team began their work by identifying problems: how rapidly and effectively could the roaches turn food waste into both roach mass and fertilizer? What types of food waste could and couldn't the roaches consume? How could animals be housed in high numbers in a highly regulated and controlled environment? How could waste be introduced to the system and how could the end products be removed? How could this be developed into a marketable process and procedure? The team has been working diligently to address these questions over the last year.

Work began with a number of investigatory discussions and meetings both on campus and beyond. In collaboration with the Chartwell's corporation the team was able to analyze the constituents of the food waste produced by Radford University's Dalton cafeteria, and to compare that with both home food waste and the types of food-related waste generated by various agricultural practices. Through visitations and consultations with various regional greenhouses, fish farms and rendering plants, the team was able to assess the limitations, challenges and requirements of industrial scale waste processing and high intensity agriculture, and to generate a variety of ideas about how to monetize food waste. These data points provided an excellent frame of reference for understanding the obstacles and impediments, both regulatory and practical, facing them in their overall task.

Alongside their investigations into pre-existing businesses and infrastructure, the team began to conduct research on the roaches themselves, with a particular focus on their diet, growth and waste output. Initial findings showed that roaches have a broad dietary range but are ideally situated for the recycling of relatively unprocessed foods, with a marked preference for simple fruits, vegetables and meats. Hormonally accelerated roaches are able to transform these foods at an impressive rate, converting them rapidly into both mass and a compact, low-water, high nutrient frass (solid insect waste). Chemical analysis studies indicate that roach frass produced in this fashion has the potential to serve as a powerful fertilizing agent. Even better, in contrast to vertebrate-based agriculture, roach frass creates very few potential pollutants. In addition, early nutritional analysis suggests that roaches fed biowaste are themselves an excellent source of protein with potential use as a food source in aquaculture and animal feed.



At this point the team is well on its way to final construction of a large BioTransformer test system. The base unit will occupy a space of 54 square feet, and be capable of housing several thousand roaches. With a computer controlled and monitored environment, along with a treadmill for moving waste through the system, it is hoped that it could remove several dozen pounds of food waste per day. In addition, it will provide an ideal test engine for ongoing student-focused research in biology, design, computer programming, and nutrition.

Capture the Flag Cyber Defense

The Department of Information Technology at Radford University recently completed the 2016 RUSecure CTF Contest. This contest was sponsored in part by the National Security Agency (NSA), Citizens and Cyberpath. The RUSecure Contest, which is in its 4th year, challenges students in a wide variety of topic areas including anatomy of an attack, an introduction to networking, cryptography, forensics, web security, and Windows/Linux security. The preliminary round provides an opportunity for students to learn a great deal of material in a short period of time, motivated by challenges and supported by hints, videos and other educational material. Teams competed remotely in this two-week, virtual contest.



The 2016 Preliminary Round featured 289 high school and community college students representing 70 teams from 32 different community colleges and schools. For the first time, the contest included students from outside of the Commonwealth of Virginia. In addition, prizes were provided by the NSA grant for each member of the top 12 teams.

LiveWell Social Norming Campaign



The Office of Substance Abuse and Violence Education Support services (SAVES) began receiving grant funding from Anheuser-Busch Foundation and National Social Norms Center in March 2011. The goal of the LiveWell social norming campaign is to take part in changing the culture of drinking on the campus of Radford University by providing accurate information on alcohol use and other health-related behaviors while encouraging healthy lifestyle choices.

The LiveWell campaign was developed using data collected through the bi-annual administration of the American College Health Association's National College Health Assessment (ACHA NCHA), which was obtained through partnership with Professor John Brummette with the School of Communication and Professor Allison Wisecup with the College of Humanities and Behavioral Sciences.

Since its creation, LiveWell has evolved from exclusively targeting high-risk drinking behaviors to including more pro-social and healthy behaviors, such as healthy study habits, stress management, understanding consent, violence reduction, and resources for anxiety and depression. Incorporating information on healthy lifestyle choices provides a holistic approach to educating students on making positive health-related decisions, which can result in reduced alcohol consumptions.

LiveWell disseminates information throughout campus via Tartan ads, information on the closed-circuit televisions, posters on bulletin boards, and social media accounts. Another method of reaching students is by hosting tabling events. Once a month there are interactive events in the student center focusing on topics related to relevant issues, such as the dangers of abusing prescription drugs as a method to enhance ability to study during midterm exam week.

Collaboration is essential to the success of the LiveWell campaign. Events include participation from campus and community resources such as the Women's Resource Center of the New River Valley, the National Alliance for Mental Illness, Radford University Peer Health Educators, and the LGBTQ+ alliance. These collaborations give students information about and access to campus and community resources, as well as information on healthy lifestyle choices.

Evidence Based Crime Reduction Strategies

Dr. Rachel Boba Santos is a Professor in the Department of Criminal Justice. She joined Radford University in Fall 2016 after 13 years at Florida Atlantic University and 3 years at the Police Foundation in Washington DC. Dr. Santos teaches research methods, crime analysis, and criminal justice technology.



Rachel Santos with Port St. Lucie, FL Police Department Chief and Assistant Chiefs

Her area of expertise is crime reduction efforts by police, crime analysis, and “crime and place,” and her research focuses on conducting both evidence-based research through experimental and quasi-experimental designs, as well as on practice-based research to evaluate the implementation of evidence-based crime reduction strategies. Dr. Santos is currently working with the Institute of Intergovernmental Research to develop a comprehensive crime analysis toolkit for police crime analysts (DOJ Bureau of Justice Assistance funding) and on a Collaborative Reform Initiative with the Chester, PA Police Department (DOJ Office of Community-Oriented Policing funding) to assess and make recommendations for the agency’s improved use of force practices, crime reduction efforts, and community engagement. She has a grant with a software company to provide education to police practitioners on crime analysis, communication mechanisms, and accountability for crime reduction and is a subject matter expert for a George Mason University and the Roanoke County Police Department project (DOJ Bureau of Justice Assistance funding) providing assistance with crime analysis data for an experiment to implement strategies for mental health in crime hot spots. Since being at Radford, Dr. Santos has written three national-level grant proposals (still under review) totaling over 2 million dollars for federal and foundation funding to conduct research and technical assistance for crime analysis, crime reduction, and accountability in police departments.

Dr. Santos has an active publication agenda of peer reviewed journal articles resulting from her research and grant work. In November, she published the fourth edition of her book, *Crime Analysis with Crime Mapping* (Sage), which is the only textbook on crime analysis and has been translated into Chinese. She is currently a guest editor for a peer-reviewed police journal's special issue on the role of crime analysis in policing, will be contributing a chapter on predictive policing in the second edition of *Police Innovation: Contrasting Perspectives* (Cambridge), and is working on several articles detailing the results of two experiments with a police department in Florida.



Rachel with Dr. Roberto Santos, Assistant Professor (Radford Department of Criminal Justice) and Roanoke City Police Department



Sponsored



Activities

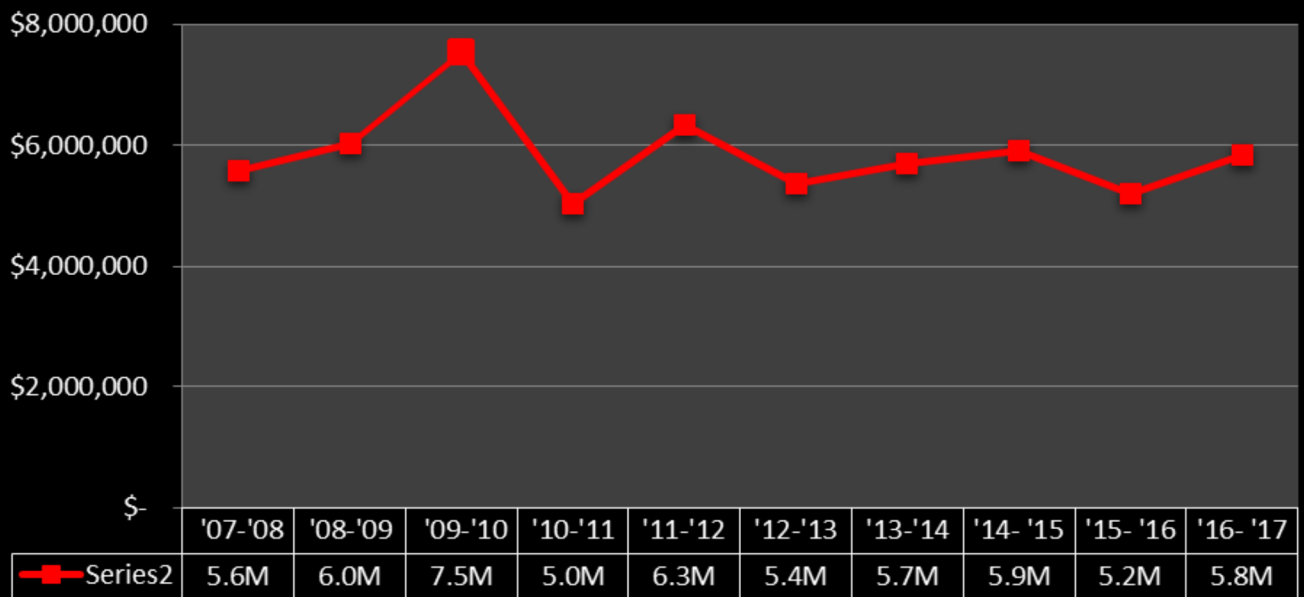
TOTAL AWARDS BY YEAR

Awards Received for FY 2017

The faculty, staff, and students of Radford University have again brought in \$5 million or more in grants, contracts, and cooperative agreements for the fourteenth consecutive year. During Fiscal Year 17, fifty (50) awards were received for a total of \$5,831,000 in external funding.

Our success may be seen in the following graph.

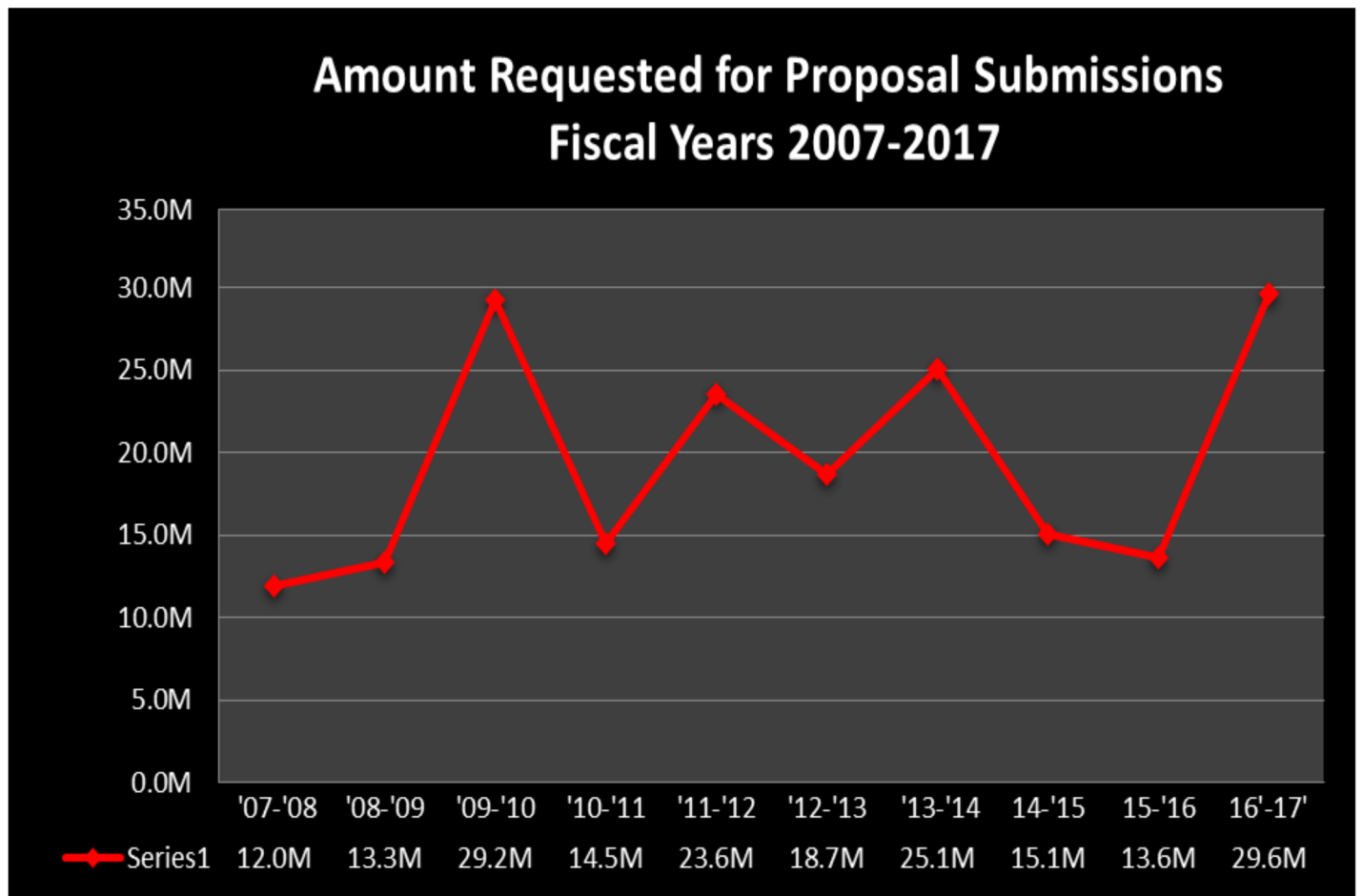
**Amount Awarded in Sponsored Agreements
Fiscal Years 2007-2017**



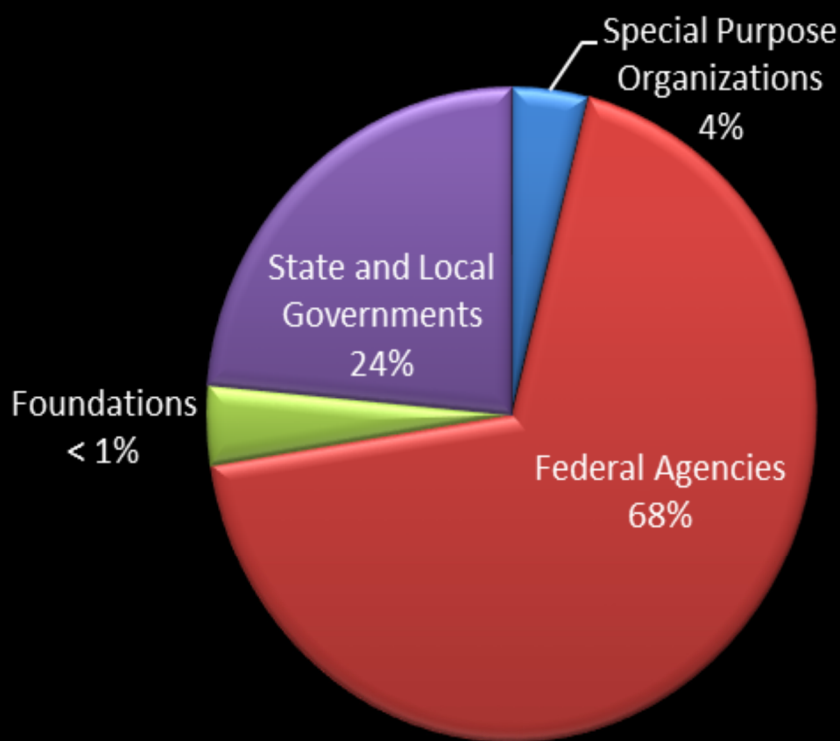
TOTAL SUBMISSIONS BY YEAR

Proposal Submissions for FY 2017

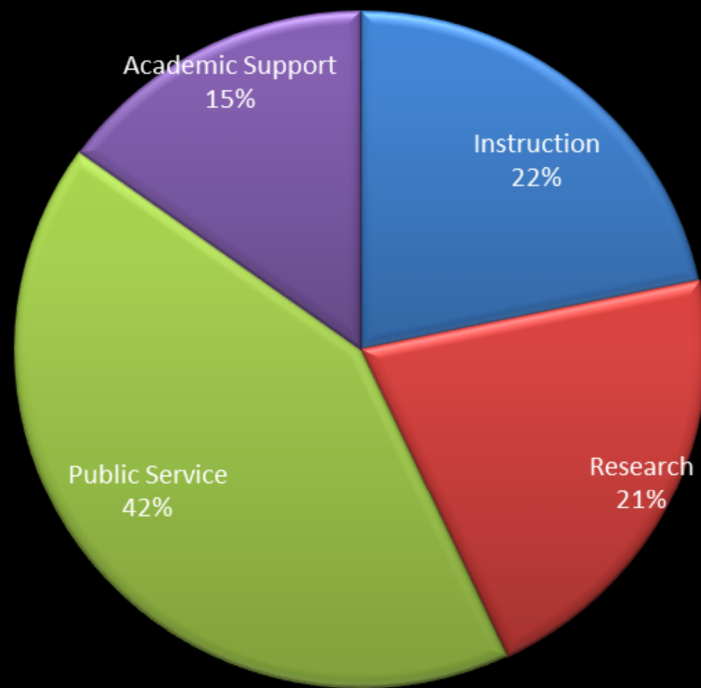
We are proud of our faculty, staff and students who have increased their proposal submissions by 54% since last year and requested a total of \$29,626,780 in external funding.



AWARDS BY FUNDING SOURCE

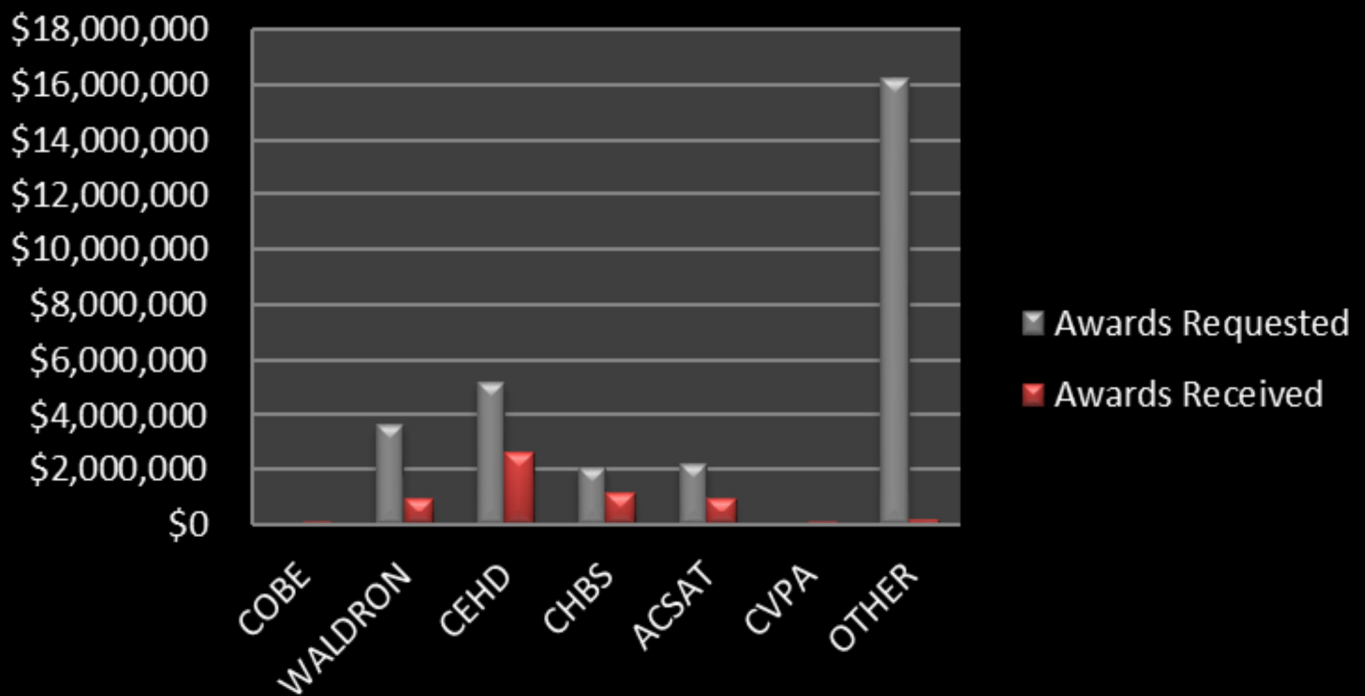


AWARDS BY PURPOSE



FY 2017 SUBMISSIONS

FY2017 Grant Activity by Academic Unit

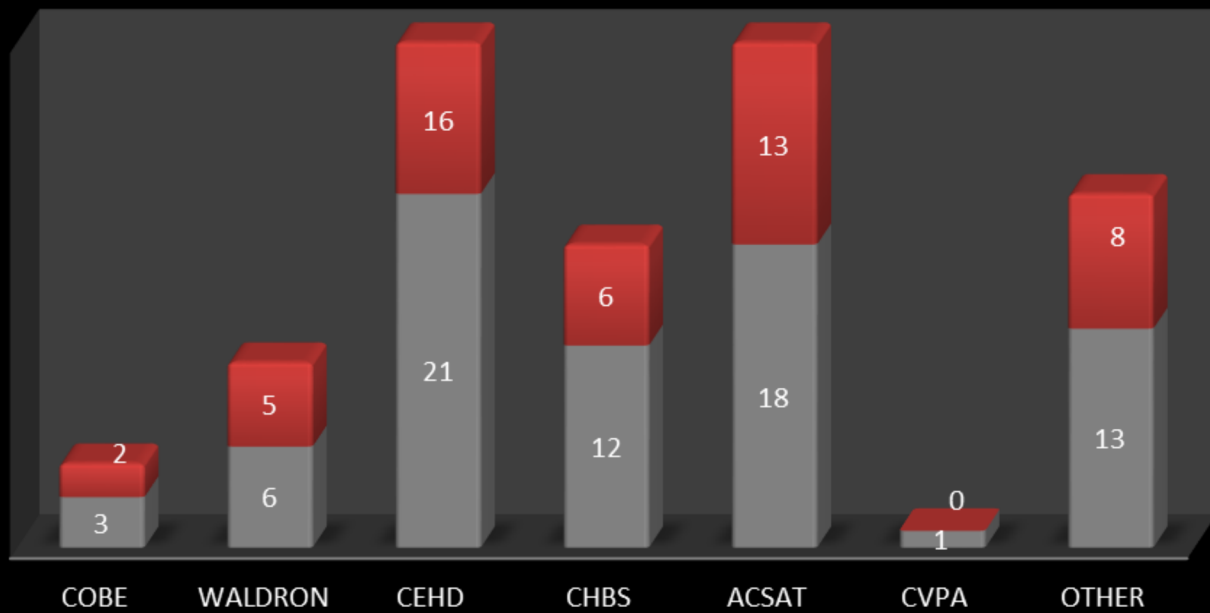


Department	Amount Requested	Amount Received
COBE	\$64,104	\$20,500
WALDRON	\$3,663,607	\$920,609
CEHD	\$5,196,337	\$2,595,373
CHBS	\$2,107,774	\$1,124,009
ACSAT	\$2,230,247	\$918,953
CVPA	\$81,621	\$81,621
OTHER	\$16,283,210	\$169,845

AWARDS BY ACADEMIC UNIT

FY2017 Submissions/Awards by Academic Unit

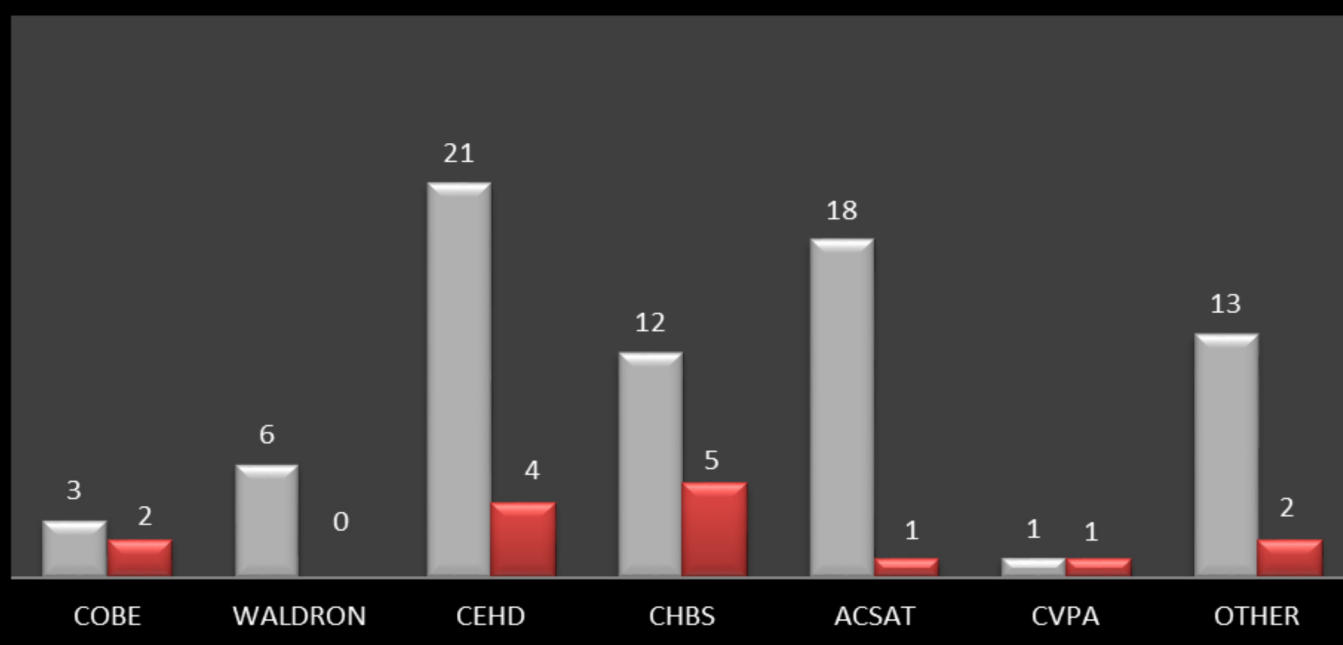
■ Proposals Submitted ■ Awards Received



SUBMISSIONS AND AWARDS

Individuals Receiving Awards for the First Time by College

■ External Proposals Submitted ■ Individuals submitting External Proposals for the First Time



College of Business and Economics

- Dr. Daniel Farhat
- Dr. Richard Gruss

College of Humanities and Behavioral Sciences

- Dr. Emily Dove
- Dr. I-Ping Fu
- Dr. Rachel Santos
- Dr. Kyshawn Smith
- Dr. Matthew Turner

College of Education and Human Development

- Dr. Amanda Bozack
- Dr. Melissa Lisanti
- Dr. Roofia Galeshi
- Dr. Jyotsna Sharman

Artis College of Science and Technology

- Dr. Joyce Caughron

College of Visual and Performing Arts

- Dr. Joseph O'Connor

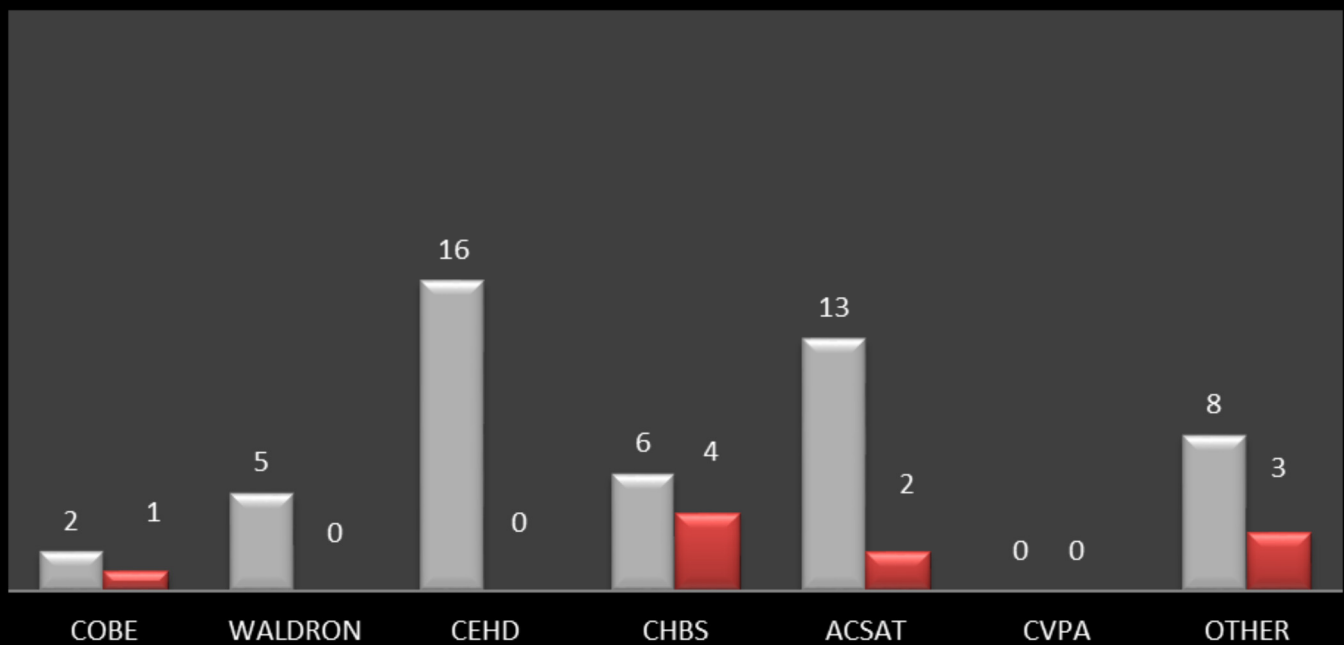
Other Departments

- Dr. Jeanne Mekolichick
- Ms. Kelly Rubin

BY FIRST TIME FACULTY

Individuals Receiving Awards for the First Time by College

■ Total Awards ■ First Time Awards



College of Business and Economics

- Dr. Daniel Farhat

College of Humanities and Behavioral Sciences

- Dr. I-Ping Fu
- Dr. Sarah Hastings
- Dr. Valerie Leake
- Dr. Matthew Turner

Artis College of Science and Technology

- Dr. Matthew Close
- Dr. Joyce Caughron

Other Departments

- Mr. Grady Devilbiss
- Ms. Kelly Rubin
- Mr. Aaron Spelbring

OUTREACH

The Office of Sponsored Programs and Grants Management is committed to providing excellent outreach opportunities for our faculty, staff, students and community. We know that navigating and learning about the world of grants can be challenging, so our office has tried to provide the best possible outreach opportunities in various areas to the RU community.

Below is a comprehensive list of outreach activities provided by our office in FY2017:

- Fall 2016 Our Turn session titled “*Finding Funding Opportunities.*”
- Fall 2016 Our Turn session titled “*How Can Sponsored Programs Support Your Research Project?*”
- Trained 23 faculty on Pivot, a database for finding funding opportunities.
- Training Session “Maneuvering through the Grant Process” for Occupational Therapy Graduate Students.
- Sent two faculty members to a grant writing class in Roanoke, VA.
- Sent a faculty member to a NSF Conference in Pittsburgh, PA.
- Sent a faculty member to a Professional Grant Development Workshop in Charlottesville, VA.
- Co-hosted two grant writing workshops on campus with the College of Graduate Studies and Research titled “*Think Like a Funding Agency: How to Write a Successful Grant Proposal.*”
- *RU Discovery* newsletter with eight issues.
- Dissemination of the *Research Development & Grant Writing Newsletter.*

MILLION DOLLAR CIRCLE

The Million Dollar Circle program recognizes members of the Radford University faculty who receive a cumulative total of \$1 million dollars or more in external grants or contracts. Members of the Million Dollar Circle are formally recognized for their accomplishments at the beginning of the academic year following the fiscal year in which they become eligible for the award.

During this past fiscal year, the Office of Sponsored Programs and Grants Management was pleased to announce the following members of the Radford University community who achieved this honor:



Dr. Victoria Bierman
Waldron College of Health
and Human Services
\$1,277,520



Dr. Jeremy Wojdak
Artis College of Science
and Technology
\$1,412,619

INTERNAL FUNDING

INTERNAL GRANTS TO ASSIST IN SECURING EXTERNAL AWARDS

Seed Grants are offered to enable members of the faculty and staff to secure competitive external awards. A typical Seed Grant provides funding to conduct a preliminary study that leads to a major research grant, or a grant with a research component. As a condition on receiving a Seed Grant, proposed sponsors must allow for indirect cost recovery in the budget.

Deadlines for proposals are rolling: (September 15—April 15)



Traveling to Meet with Potential Sponsors are small travel stipends given to faculty who are interested in meeting with Program Managers to discuss projects and funding possibilities.

Applicants for *Traveling to Potential Sponsors* programs may submit at any time.

Awards are subject to the availability of funds.

SEED GRANT AWARDS

Caleb Bradberry, IT
Wendy Downey, Nursing
Wil Kolb, DoPT

Examining Cost and Quality of Care for Heart Failure Patients in the Commonwealth of Virginia: A Platform for Advanced Healthcare Analytics to Readmission Rates

\$19,780

Peter Christmas, Biology
Regulation of Protein Prenylation by CYP4F3
\$20,000

Brent Harper, Physical Therapy
The Effect of Rowing-Induced Fatigue on King-Devick and Postural Stability
\$12,761

Jean Mistele, Math & Statistics
Exploring Malawi Math Curriculum used in a Rural Village School
\$19,692

Md Shamim Sarker,
Stephen Corwin
Math/Statistics

Group testing regression models in the presence of dilution effects
\$5,000

Patricia Talbot
Glenna Gustafson
STEL
World-Ready Teachers – Life-Ready Learners
\$20,000

Jean Mistele, Asst. Professor, Math
Jennifer Jones Powell, STEL Professor
Katie Hilden, Assoc. Professor, STEL
Mathematics and Comprehension Integration in Elementary Schools
\$11,195

PROPOSAL SUBMISSIONS

Alteiri, Elizabeth, STEL. George Mason University (flow-through from the Virginia Department of Education). \$38,610. *Severe Disabilities Grant 2016-2017 Supplement*. This proposal requests funding to teach one or two courses as part of the Virginia Department of Education Statewide Training Consortium.

Alteiri, Elizabeth, STEL. George Mason University (flow-through from the Virginia Department of Education). \$84,300. *Severe Disabilities 17-18*. This proposal requests funding to teach one or two courses as part of the Virginia Department of Education Statewide Training Consortium.

Alteiri, Elizabeth, STEL. George Mason University (flow-through from the Virginia Department of Education and U.S. Department of Education). \$26,915. *Visual Impairment Grant 17-18*. This proposal is to pay for partial tuition support for students, and to teach a course as part of the Virginia Department of Education Statewide Training Consortium as a subaward on George Mason University's grant.

Altieri, Elizabeth, STEL. CO-PI: **Karen Stinson**, STEL. Virginia Department of Education (flow-through from the U.S. Department of Education). \$180,000. *Teacher Preparation and Professional Development Project - Hearing Impairment PreK-12*. This proposal is to provide education and professional development to full-time undergraduate and graduate students as well as practicing teachers, speech pathologists, and other service providers.

Altieri, Elizabeth, STEL. CO-PI: **Karen Stinson**, STEL. Virginia Department of Education (flow-through from U.S. Department of Education). \$19,200. *Educational Interpreter Professional Development 2017-2018*. The purpose of this proposal is to provide full-time undergraduate and graduate programs leading to licensure in Hearing Impairment, Prek-12 quality professional development opportunities.

Anderson, Justin, Biology. CO-PI: **Joyce Caughron**, Biology. Tufts University. \$947. *Tuft's Project: Improving the Quality of Undergraduate Education*. This proposal is to improve the quality of undergraduate education in a transformative way by initiating a large-scale research project in which individual students' data points in a low-cost, short duration course-based research module.

Bierman, Vicki, School of Nursing. Health Resources and Services Administration (HRSA). \$1,212,271. *Advanced Nursing Education Workforce: Longitudinal Education Advancing Rural Nursing (ANEW:LEARN)*. This proposal is designed to increase the rural healthcare workforce with qualified nurse practitioners to meet significant healthcare needs.

Bierman, Vicki, School of Nursing. Health Resources and Services Administration (HRSA). \$1,904,359. *FY2017 BHWET Competition*. The goal of this proposal is to increase the number of adequately trained rural behavioral healthcare providers to participate in an integrated care that will prevent and treat mental health disorders, with specific skills in substance use disorders.

Borak, Andrew, Fitness/Wellness Center. Outdoor Foundation. \$750. *The Outdoor Nation Campus Challenge*. This proposal is for planning, preparation, and participation in the 2016 Outdoor OptOutside campaign.

Boyd, Donna, Forensic Science Institute. CO-PI: **Clifford Boyd**, Forensic Science Institute. U.S. Department of Justice. \$210,455. *Evaluation of Pediatric Non-Accidental Cranial Trauma Through the National Bone Fracture Archive*. This proposal is to use an interdisciplinary perspective, including input from forensic pathology, forensic anthropology, and pediatric neuroscience and neuroanatomy, to document and evaluate pediatric non-accidental trauma.

Burriss, Theresa, Appalachian Studies. East Tennessee State University (flow-through Appalachian Regional Commission). \$4,500. *Appalachian Teaching Project (ATP) - Clinch River Valley Initiative (CRVI) 2017*. This proposal is to collaborate with Clinch River Valley Initiative to increase tourism and bolster community pride, identity, and a sense of place.

Burriss, Theresa, Appalachian Studies. East Tennessee State University (flow-through Appalachian Regional Commission). \$4,500. *Appalachian Teaching Project (ATP) - Clinch River Valley Initiative (CRVI) 2018*. The purpose of this proposal is to offer at least one course in which students will address the question, "How do we build on community assets to shape a positive future for Appalachia?"

Burriss, Theresa, Appalachian Studies. Radford University Foundation, Inc. \$20,000. *AASIS App Arts Studies in School 2018*. The purpose of this proposal is to encourage promising young Southwest Virginia students to pursue higher education while giving them the opportunity to learn more about the culture of the Appalachian region.

Burriss, Theresa, Appalachian Studies. Radford University Foundation, Inc. \$32,450. *Appalachian Arts and Studies in Schools (AASIS)2017*. The purpose of this proposal is to encourage promising young Southwest Virginia students to pursue higher education and give them the opportunity to learn more about the culture of the Appalachian region.

Chase, Joseph, Information Technology. CO-PI: **Prem Uppuluri**, Information Technology. National Security Agency. \$92,693. *GENCyber: Prepare and Dare Teacher Training Camp*. This proposal is for a GENCyber camp for teachers who will learn skills and confidence required to teach cybersecurity in their schools.

Chase, Joseph, Information Technology. CO-PI: **Prem Uppuluri**, Information Technology. **Gregory Sherman**, STEL. National Science Foundation. \$497,252. *Prepare, Inspire and Recruit Cyber Citizens (PIRC): Developing the next generation of cybersecurity workforce*. This project will build capacity at the undergraduate level by increasing the K12 pipeline of students interested in cybersecurity into Radford's undergraduate security program, and infuse cybersecurity into every pathway to graduation with a degree in Computer Science (CS) or Information Systems (IS) at Radford.

Chase, Joseph, Information Technology. CO-PI: **Prem Uppuluri**, Information Technology. National Security Agency. \$49,630. *Inspire, Prepare and Engage Teachers [IPET]*. This proposal is to provide K-12 teachers with the confidence, skills, and resources to incorporate and teach cybersecurity from the elementary to high school level.

Chase, Joseph, Information Technology. CO-PI: **Prem Uppuluri**, Information Technology. National Security Agency. \$160,766. *Pathways in Cybersecurity at Radford University (PICSAR)*. This proposal is to increase the number of cybersecurity educators in elementary, middle schools, and high schools.

Close, Matthew, Biology. Radford University Foundation, Inc. (flow-through from Virginia Herpetological Society). \$500. *VHS Grant 2016*. This proposal provides funding to mark and monitor ambystoma jeffersonianum salamanders with Passive Integrated Transponder tags.

Cohn, Tracy, Psychology. Radford University Foundation, Inc. \$15,000. *Health and Care at FCNRV - King*. This proposal will provide funding for psychotherapy and integrated care counseling and allow for a longitudinal evaluation of the Integrated Care Model.

Colley, Kenna, Dean of the College of Education and Human Development. Advance Education, Inc. \$24,275. *Advance Education, Inc.: Virginia Southern Association of Colleges and Schools Council for Accreditation*. This proposal is for Radford University to house and be a fiscal agent for the Advance Education, Inc.

Colley, Kenna, Dean of the College of Education and Human Development. CO-PI: **Virginia Bussey**, STEL. **Leslie McArthur-Fox**, STEL. Virginia Department of Education (flow-through from the U.S. Department of Education). \$1,284,509. *Training and Technical Assistance Center (TTAC) 2017-2018*. The Virginia Department of Education's statewide projects with TTAC provide professional development and support designed to assist schools in addressing accountability and improvement goals for students with disabilities.

Colley, Kenna, Dean of the College of Education and Human Development. CO-PI: **Virginia Bussey**, STEL. **Leslie McArthur-Fox**, STEL. Virginia Department of Education (flow-through from the U.S. Department of Education). \$92,640. *Training and Technical Assistance Center (TTAC) 2015-2017 Supplement 2*. This supplement is for additional funding for the Training and Technical Assistance Center which provides professional development and support design to assist schools in addressing accountability and improvement goals for students with disabilities.

Colley, Kenna, Dean of the College of Education and Human Development. CO-PI: **Virginia Bussey**, STEL. **Leslie McArthur-Fox**, STEL. Virginia Department of Education (flow-through from the U.S. Department of Education). \$100,000. *Training and Technical Assistance Center (TTAC) 2015-2017 Supplement 3*. This supplement is for additional funding for the Training and Technical Assistance Center which provides professional development and support design to assist schools in addressing accountability and improvement goals for students with disabilities.

Colley, Kenna, Dean of the College of Education and Human Development. CO-PI: **Elizabeth Altieri**, STEL. **Debora Bays**, STEL. Virginia Department of Education (flow-through from the U.S. Department of Education). \$178,068. *Growing Special Educators: Introductory Coursework*. This proposal is to deliver a compressed, one-month asynchronous online course to enhance the professional knowledge and skills of 100 individuals, specifically related to enhancing educational outcomes of students with disabilities in the Commonwealth of Virginia.

Corey, Darryl, CEHD-MS Education Mathematics. CO-PI: **Agida Manizade**, Mathematics and Statistics. **Laura Jacobsen**, Interim Dean of Graduate Studies and Research. National Science Foundation. \$2,333,485. *DD: Preparing Teachers for a Changing World: Improving STEM+C in Secondary Mathematics Instruction Project*. This proposal is to: (1) design a sustainable professional development environment for teacher leaders that integrates computational thinking and modeling and simulation into 8 online graduate courses for secondary mathematics teachers; (2) improve secondary mathematics teachers' knowledge of computational thinking and ability to design technology materials to influence how mathematics is taught; and (3) develop teachers to serve as STEM+C leaders in their schools.

Corey, Darryl, CEHD-MS Education Mathematics. CO-PI: **Roofia Galeshi**, CEHD-MS Education Mathematics. **Agida Manizade**, Mathematics and Statistics. **Laura Jacobsen**, Interim Dean of Graduate Studies and Research. **Rayya Younes**, STEL. Virginia Department of Education (flow-through from U.S. Department of Education). \$74,402. *Secondary Mathematics Professional Development Center Supplement*. This is a supplement to enhance teachers': (1) mathematical knowledge; (2) pedagogical content knowledge; and (3) classroom practices and assessments of student performances.

Cox, Kenneth, Communication Sciences and Disorders. Radford University Foundation, Inc. \$13,457. *Audiology Services Carlot*. This proposal is to provide audiology services to low income patients.

Devilbiss, Grady, Emergency Preparedness. Virginia Department of Emergency Management. **\$75,000**. *Pre-Disaster Mitigation*. This proposal is to update the pre-disaster mitigation plan.

Duncan, Thomas, Economics. CO-PI: **Daniel Farhat**, Economics. Charles Koch Foundation. \$9,950. *NRV Teachers Conference*. This proposal is for funding to host a two-day business conference for teachers.

Duncan, Thomas, Economics. CO-PI: **Daniel Farhat**, Economics. Charles Koch Foundation. \$23,000. *Guest Speaker Program*. This proposal is to host two guest speakers for economic students and a reading group program.

Dunleavy, Matthew, Innovation Learning Lab. CO-PI: **Allyster "Brooke" Blanks**, STEL. **Kenna Colley**, Dean of the College of Education and Human Development. **Amanda Bozack**, STEL. U.S. Department of Education. \$13,873,844. *Appalachian Support for Specialized Education Training (ASSET)*. This proposal is to establish the ASSET program to increase the number of highly effective educators in K-12 high-need schools in

rural Appalachia by building educators' knowledge and skills in evidence based practices that: a) contribute to inclusive school culture, and b) increase access to the general curriculum for students with diverse learning needs in K-12 high-need schools.

Francl-Powers, Karen, Biology. Virginia Department of Game and Inland Fisheries. \$20,000. *Mammal surveys in Virginia*. This proposed project is to assist VDGIF with endangered or rare bat surveys in Virginia, primarily surveying for little brown bats, small-footed bats, grey bats, and northern myotis.

Fu, I-Ping, Foreign Languages and Literatures. Radford University Foundation, Inc. \$6,024. *Kirk Scholarship Funding*. This proposal provides stipends to students to study for three weeks in the Summer of 2017 in China to enhance their language skills and visit various sites in China.

Galeshi, Roofia, CEHD-MS Education Mathematics. American Educational Research Assoc. \$34,895. *Innovative Approach to Standard Setting for Algebra Entry*. The main purpose of the proposed research is to develop a framework for standard setting procedures that is appropriate for an emerging educational measurement, diagnostic cognitive model (DCM), to assess students' level of preparation to take their first algebra course.

Galeshi, Roofia, CEHD-MS Education Mathematics. Association for Institutional Research. \$49,960. *Access Group Research Program*. The main purpose of this research is investigating the drop in graduate/professional degree applicants in two areas of law and STEM.

Gilbert, Sharon, STEL. CO-PI: **Kathleen Pierson**, STEL. Virginia Department of Behavioral Health and Developmental Services (flow-through from the U.S. Department of Education). \$113,558. *Infant and Toddler Connection (ITC NRV) 2017-2018 Federal Funds*. This program's purpose is to provide early intervention services to eligible children birth to 2 years of age or their 3rd birthday.

Gilbert, Sharon, STEL. CO-PI: **Kathleen Pierson**, STEL. Virginia Department of Behavioral Health and Developmental Services (flow-through from the U.S. Department of Education). \$217,228. *Infant and Toddler Connection (ITC NRV) 2017-2018 State Funds*. This program's purpose is to provide early intervention services to eligible children birth to 2 years of age or their 3rd birthday.

Gilbert, Sharon, STEL. Virginia Department of Education (flow-through from the U.S. Department of Education). \$68,000. *Virginia Consortium for Teacher Preparation in Early Childhood Special Education*. The purpose of this project is to address the critical shortage of Virginia licensed teachers who carry endorsement in Early Childhood Special Education.

Gruss, Richard, Management. Virginia Tech (flow-through from National Institutes of Health). \$31,154. *Using Online Reviews to Understand and Promote Child Product Safety*. Radford University will collaborate with Johns Hopkins Center for Injury Research and Policy and Virginia Tech, to use online reviews to understand and promote child product safety.

Gustafson, Glenna, CEHD-MS Education Mathematics. Kent State University (flow-through from The Stevens Initiative). \$58,813. *Teacher Candidate Virtual Exchange*. This proposed project is to ramp up global education in teacher preparation for middle grades mathematics method courses.

Hendrix, Nicole, Criminal Justice. Virginia Department of Criminal Justice Services. \$62,884. *Targeting Safety: The Role of School Based Education in Reducing Death and Injury Related to Firearms*. The proposed study examines the use, implementation, and effects of the Commonwealth of Virginia Department of Education Elementary School Gun Safety Guidelines and Curriculum.

Hodge, Diane, School of Social Work. Virginia Department of Social Services. \$215,552. *Recruitment and Development of Professionally Trained Workforce in the field of Child Welfare (CWSP)*. The purpose of this proposal is to promote the recruitment and development of a professionally trained workforce that will pursue a career in child welfare.

Hodge, Diane, School of Social Work. Virginia Department of Social Services (flow-through from U.S. Department of Health and Human Services). \$118,541. *Community Resource Adoptive Foster Family Training (CRAFFT) 2017-2018*. This proposal is to offer foster parent and child development training to both social service workers and to families.

Leake, Valerie, Psychology. The Society for Military Psychology. \$3,638. *Assessing a Veteran Specific Orientation Course*. This proposal is to assess a veteran specific orientation course in the areas of college readiness, specifically: connectedness, school belonging, self-efficacy, general well-being, and communication.

Lisanti, Melissa, STEL. SCHEV. \$33,497. *Education Partnership Planning Grant*. This proposal through a partnership with Franklin County Schools, Pulaski County Schools and Virginia Western Community College will build an affordable career pipeline into the teaching profession to increase the number of teachers by reducing the financial burdens and increasing professional support through and beyond higher education with specific attention to critical shortage areas.

Mabry, Jennifer, Psychology. CO-PI: **Emily Dove**, Psychology. Community Foundation of the New River Valley. \$4,000. *Providing Tools to Address Students' Mental Needs in Schools*. This grant would allow CAPS to begin a community outreach project that provides professional development training for NRV school staff, community mental health providers, and graduate students, using the PREPaRE curriculum. PREPaRE is an empirically supported and nationally available curriculum that provides mental health and educational professionals certificate training on school safety and responsiveness to students' mental health needs.

Maxwell, R. Stockton, Geospatial Science. Indiana University (flow-through from National Science Foundation). \$142,029. *Project EastNet: Paleo-Perspectives on Hydroclimate Variability Across the Eastern U.S.* This proposal is to recruit and mentor undergraduate students to assist in local/regional fieldwork research.

McClellan, Elizabeth, Geology. Evolving Earth Foundation. \$3,000. *Embarking on a Cryogenian Journey: Investigating Volcanism and Glaciation in Southwest Virginia*. This proposal is to document stratigraphic relationships and age constraints between ~760-750 Ma intracontinental rift volcanics of the Mount Rogers Formation and overlying glacial deposits of the Konnarock Formation that formed on the rifted eastern margin of Laurentia during breakup of Rodinia.

Mekolichick, Jeanne, Asst. Provost for Academic Programs. CO-PI: **Katherine Hawkins**. Dean of the College of Humanities and Behavioral Sciences. U.S. Department of Education. \$1,910,842. *DOE Title III SIP - WREATH*. This proposal is to develop and start Radford's WREATH (Writing, REAding, THinking) program.

Onega, Lisa, School of Nursing. CO-PI: **Thomas Pierce**, Psychology. Commonwealth Health Research Board (CHRB). \$199,427. *Bright Light Therapy for Individuals with Dementia*. This project is to examine the effects of light intensity, number of exposure sessions per day, and time of day of exposure on depression and agitation with dementia patients.

Phelps-Durr, Tara, Biology. Co-PI: **Orion Rogers**, Dean of Artis College of Science and Technology. **Jeremy Wojdak**, Biology and **Jeanne Mekolichick**, Asst. Provost for Academic Programs. Howard Hughes Medical Institute. \$999,993. *REALISE (REALizing Inclusive Science Excellence)*. This proposal is designed to improve retention of all students entering biology, chemistry, and physics majors at Radford University.

Phelps-Durr, Tara, Biology. CO-PI: **Brett Taylor**, Chemistry. The Council on Undergraduate Research (flow-through National Science Foundation). \$16,000. *CUR Transformation Project*. This proposal is to create a curriculum that promotes student success and is inspirational to both students and faculty.

Pittges, Jeffrey, Information Technology. CO-PI: **Karen Ughetta**, Information Technology. Radford University Foundation, Inc. (flow-through IBM) \$10,000. *IBM Faculty Award*. This proposal is for MFA design students to collaborate with IT students to research, observe, ideate, and then build a schematic diagram of an interactive, virtual environment that allows users to collaborate virtually as part of the design thinking process.

Pittges, Jeffrey, Information Technology. Radford University Foundation, Inc. \$5,000. *Data and Information Management Accelerated Master's Program*. This proposal will provide a graduate research stipend for Information Technology student.

Powell, Jennifer Jones, STEL. CO-PI: **Katherine Clouse Hilden**, STEL. **Jean Mistele**, Mathematics and Statistics. SCHEV (flow-through from U.S. Department of Education). \$141,872. *PROJECT STREaM: Fostering Integrated Knowledge and Achievement*. This proposal focuses on best practices in STEM and literacy by integrating these two areas at the foundational, elementary levels.

Rogers, Orion, Dean of Artis College of Science and Technology. CO-PI: **David Horton**, Artis College of Science and Technology. Radford University Foundation, Inc. \$81,621. *Summer Bridge 2017 - 2018*. This proposal is to host a week-long residential STEM program for rising sophomore, junior, and senior high school girls interested in science, technology, and mathematics.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. Anheuser-Busch Foundation. \$14,845. *RU Normal Social Norming Campaign 2016*. This grant is to institute a campaign to change the culture of drinking of Radford University campus through a social norming campaign.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. Anheuser-Busch Foundation. \$16,390. *RU Normal Social Norming Campaign 2017*. This proposal is to support a social norming campaign on campus to change the culture of drinking at Radford University.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. CO-PI: **Allison Wisecup**, Sociology. **Stirling Barfield**, Psychology. U.S. Department of Justice. \$299,999. *RU's Campus Grant to Reduce Sexual Violence*. This proposal is to increase awareness of and improve effective responses to sexual assault, domestic violence, dating violence, and stalking among students, faculty, and staff.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. Peter G. Dodge Foundation. \$10,000. *RU Collegiate Recovery Program*. This proposal is to develop a social support system for students in recovery at Radford University.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. The Christopher D. Smithers Foundation. \$10,000. *Building a Collegiate Recovery Program*. This proposal requests funding to build a Collegiate Recovery Program to support students recovering from addiction to alcohol and/or drugs while working to achieve their academic goals.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. The Stacie Mathewson Foundation. \$10,000. *Transforming YouthRecovery (TYR) Seeds of Hope*. This proposal requests funding to develop a social support system for students in recovery at Radford University and create a Recovery Zone training and awareness event.

Santos, Rachel, Criminal Justice. CO-PI: **Roberto Santos**, Criminal Justice. Delaware State Police (flow-through from U.S. Department of Justice). \$325,675. *Organization-wide Implementation of Evidence-Based Policing Strategies, Agency and Community Evaluation and Test of Effectiveness (RCT)*. This proposal is to implement Stratified Policing in all eight Troops in the Delaware State Police, evaluate the impact on the agency, the community, and crime, as well as replicate a random controlled trial to test the effectiveness of response in micro-time hot spots.

Santos, Rachel, Criminal Justice. CO-PI: **Roberto Santos**, Criminal Justice. Institute for Intergovernmental Research (flow-through from U.S. Department of Justice). \$344,275. *Enhancing the CompStat Model*. This proposal is to implement Stratified Policing in all eight troops in the Delaware State Police, evaluate the impact on the agency, the community, and crime, as well as replicate a random controlled trial to test the effectiveness of response in micro-time hot spots.

Sharman, Jyotsna, Nutrition and Dietetics. CO-PI: **Roofia Galeshi**, CEHD-MS Education Mathematics. Virginia Center on Aging. \$42,110. *An Exploratory Study of the Effect of Turmeric on Cognition, Depression, Agitation, and Functional Ability in Older Adults with Dementia*. The purpose of this proposal is to investigate the efficacy of turmeric in improving cognition and behavioral symptoms such as depression, agitation, and functional ability of older adults with dementia.

Small, Christine, Biology. CO-PI: **Ryley C. Harris**, Student. Virginia Native Plant Society. \$6,482. *Observation and Analysis of Spring and Summer Flowering Plant Phenology in Response to Seasonal Variations in Meteorological Factors Through Citizens Science*. This project establishes a long-term, citizen science driven Flowering Plant Phenology Monitoring Program at the Selu Conservancy in Montgomery County, Virginia.

Smith, Kyshawn “Shawn”, Criminal Justice. National Science Foundation. \$310,196. *Making a Case for Place: An Exploration of Urbanization Measures on a Model of Social Capital and Crime Rates in England*. The goal of this project would be to expand upon preliminary research studying the influence of social capital on crime rates in residential communities in the U.K.

Sorensen, Amy, Sociology/Anthropology. National Institutes of Health. \$219,381. *An Exploratory, Longitudinal, Mixed-Methods Study of Maternal Health and Post-Natal Well-Being of Women with Disabilities in a Medically Vulnerable Rural Region of Virginia*. The goal of this study is to better understand the issues that affect the health and well-being of women with disabilities during pregnancy and through the first nine months after delivery.

Turner, Matthew, School of Communication. CO-PI: **Katherine Hawkins**, Dean of College of Humanities and Behavioral Sciences. **Margaret Devaney**, Dean of College of Visual and Performing Arts. Virginia Department of Education. \$9,160. *2016 (FY2017) Residential Governor's School Cost Proposal Supplement*. This is a supplement for funding to host the Summer Governor's school.

Turner, Matthew, School of Communication. CO-PI: **Katherine Hawkins**, Dean of College of Humanities and Behavioral Sciences. **Margaret Devaney**, Dean of College of Visual and Performing Arts. Virginia Department of Education. \$769,511. *2017 (FY2018) Residential Governor's School Cost Proposal*. This proposal requests funding to host the Summer Governor's school.

Van Patten, Isaac, Criminal Justice. City of Roanoke, Virginia. \$38,000. *Roanoke Police Department 2017*. This project will embed Dr. Van Patten as a criminologist within the Roanoke Police Department to enhance the effectiveness of achieving crime reduction and crime management.

Webster, Francis, Chemistry and Physics. NanoSonic, Inc. (flow-through from U.S. Department of Agriculture) \$15,000. *Renewable Resource Derived Air Filters to Reduce Pollution and N₂ Footprints of Agriculture Enterprises*. The goal of the proposed USDA SBIR research program is to develop innovative gas filtration media for ammonia removal.

Wirgau, Joseph, Chemistry and Physics. The College STAR. \$500. *A Case Study on the Impact of Flipping an Introductory STEM Course*. This proposal is to examine the impact of teaching methods on flipped classrooms without the instructor as a variable.

GRANTS AWARDED

Altieri, Elizabeth, STEL. George Mason University (flow-through from Virginia Department of Education). **\$63,000**. *Severe Disabilities Grant 2016-2017*. This grant is for funding to teach one or two courses as part of the Virginia Department of Education Statewide Training Consortium.

Altieri, Elizabeth, STEL. George Mason University (flow-through from Virginia Department of Education and U.S. Department of Education). **\$26,915**. *Visual Impairment Grant 16-17*. This grant is to pay for partial tuition support for students, and to teach a course as part of the Virginia Department of Education Statewide Training Consortium as a subaward on George Mason University's grant.

Altieri, Elizabeth, STEL. George Mason University (flow-through from Virginia Department of Education). **\$38,610**. *Severe Disabilities Grant 2015-2016*. This grant is for funding to teach one or two courses as part of the Virginia Department of Education Statewide Training Consortium.

Altieri, Elizabeth, STEL. Co-PI: **Karen Stinson**, STEL. Virginia Department of Education. **\$19,200**. *Educational Interpreter Professional Development 2016-2017*. This grant is for project faculty and staff to provide full-time undergraduate and graduate programs leading to licensure in Hearing Impairment, PreK-12.

Altieri, Elizabeth, STEL. Co-PI: **Karen Stinson**, STEL. Virginia Department of Education (flow-through from U.S. Department of Education). **\$180,000**. *Teacher Preparation and Professional Development Project - Hearing Impairment PreK-12*. This grant is to provide education and professional development to full-time undergraduate and graduate students as well as practicing teachers, speech pathologists, and other service providers.

Anderson, Justin, Biology. Co-PI: **Joyce Caughron**, Biology. Tufts University. **\$947**. *Improving the quality of undergraduate education*. This proposal is to improve the quality of undergraduate education in a transformative way by initiating a large-scale research project in which individual students' data points in a low-cost, short duration course-based research module.

Bierman, Vicki, School of Nursing. Health Resources and Services Administration (HRSA). **\$513,059**. *Advanced Nursing Education Workforce: Longitudinal Education Advancing Rural Nursing (ANEW:LEARN)*. This grant is designed to increase the rural healthcare workforce with qualified nurse practitioners to meet significant healthcare needs.

Blanks, Allyster "Brooke", STEL. Virginia Department of Education. **\$29,220**. *RU Special Education: General Curriculum K-12 Traineeship Grant 16-17*. This grant is to increase the number of educators in Virginia who are endorsed in Special Education: General Curriculum, K-12. This project will also assist school divisions in increasing their supply of special educators who have the knowledge and skill.

Borak, Andrew, Fitness/Wellness Center. Outdoor Foundation. **\$750**. *The Outdoor Nation Campus Challenge*. This grant is for planning, preparation, and participation in the 2016 Outdoor OptOutside campaign.

Burriss, Theresa, Appalachian Studies. East Tennessee State University (flow-through from Appalachian Regional Commission). **\$4,500**. *Appalachian Teaching Project (ATP) - Clinch River Valley Initiative (CRVI) 2017*. This grant is to offer at least one course in which students will address the question "How do we build on community assets to shape a positive future for Appalachia?"

Burriss, Theresa, Appalachian Studies. Radford University Foundation, Inc. **\$32,450**. *Appalachian Arts and Studies in Schools (AASIS) 2017*. This grant is to encourage promising young Southwest Virginia students to pursue higher education while giving them the opportunity to learn more about the culture of the Appalachian region.

Burriss, Theresa, Appalachian Studies. Radford University Foundation, Inc. **\$20,000**. *AASIS App Arts Studies in School 2018*. This grant is to encourage promising young Southwest Virginia students to pursue higher education while giving them the opportunity to learn more about the culture of the Appalachian region.

Chase, Joseph, Information Technology. Co-PI: **Prem Uppuluri**, Information Technology. National Security Agency (flow-through from U.S. Department of Defense). **\$6,950**. *RU Scholar: Radford University's Capture the Flag Cyber Defense Contest for Students*. This grant is to provide scholarships for tuition and fees for students on the top three teams in the yearly RUSecure: Cyber Defense Capture the Flag Contest.

Close, Matthew, Biology. Radford University Foundation, Inc (flow-through from Virginia Herpetological Society). **\$500**. *VHS Grant 2016*. This grant provides funding to mark and monitor ambystoma jeffersonianum salamanders with Passive Integrated Transponder tags.

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Ely, Linda, School of Nursing. Virginia Tech (flow-through from DHHS/SAMHSA). **\$60,000**. *SBIRT Training for Students in Health Professionals in Rural SW VA*. This grant is to increase the number of health care providers knowledgeable in evidence-based screening, brief intervention, and referral to appropriate treatment for a substance abuse disorder.

Francl-Powers, Karen, Biology. U.S. Fish & Wildlife Service. **\$16,066**. *Continued monitoring of two gray bat (*Myotis grisescens*) summer colonies in southwestern Virginia*. This project is a collaboration with VADCR/Natural Heritage and VDGIF to monitor endangered gray bats in southwest Virginia.

Francl-Powers, Karen, Biology. Virginia Department of Game and Inland Fisheries. **\$20,000**. *Mammal surveys in Virginia 17-18*. This project is to continue to assist VDGIF with endangered or rare bat surveys in Virginia, primarily surveying for little brown bats, small-footed bats, grey bats, and northern myotis.

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Leake, Valerie, Psychology. Health Resources and Services Administration (HRSA) (flow-through from U.S. Department of Health and Human Services). **\$286,314**. *The Rural Integrated Care Expansion Project 17-18*. The goal of this project is to create current and on-going interprofessional dialogue in the New River Valley, Virginia surrounding the issue of self-neglect through providing continuing education, simulation training, policy development, and research.

Phelps-Durr, Tara, Biology. Co-PI: **Orion Rogers**, Dean of Artis College of Science and Technology. **Jeremy Wojdak**, Biology and **Jeanne Mekolichick**, Asst. Provost for Academic Programs. Howard Hughes Medical Institute. **\$200,000**. *REALISE (REALizing Inclusive Science Excellence)*. This grant is designed to improve retention of all students entering biology, chemistry and physics majors at Radford University.

Pittges, Jeffrey, Information Technology. Radford University Foundation, Inc. **\$5,000**. *Data and Information Management Accelerated Master's Program*. This grant will provide a graduate research stipend for an Information Technology student.

Pittges, Jeffrey, Information Technology. Co-PI: **Karen Ughetta**, Information Technology. Radford University Foundation, Inc. **\$10,000**. *IBM Faculty Award*. This grant is for MFA design students to collaborate with IT students to research, observe, ideate, and then build a schematic diagram of an interactive, virtual environment that allows users to collaborate virtually as part of the design thinking process.

Rogers, Orion, Dean of Artis College of Science and Technology. Co-PI: **David Horton**, Artis College of Science and Technology. Radford University Foundation, Inc. **\$81,621**. *Summer Bridge*. This grant is to host a week-long residential STEM program for rising sophomore, junior, and senior high school girls interested in science, technology, and mathematics.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. Anheuser-Busch Foundation. **\$14,845**. *RU Normal Social Norming Campaign 2016*. This grant is to institute a campaign to change the culture of drinking on Radford University campus through a social norming campaign.

Rubin, Kelly, Sexual Assault and Substance Abuse Education. Anheuser-Busch Foundation. **\$16,390**. *RU Normal Social Norming Campaign 2017*. This grant is to institute a campaign to change

the culture of drinking on Radford University campus through a social norming campaign.

Spelbring, Aaron, Library. National Endowment for the Humanities. **\$6,000**. *RU McConnell Library Archives Bragg New River Coalfields Photographic Collections Preservation Assessment*. This grant is to hire the services of a conservation consultant to perform a preservation assessment on its George and Melody Bragg New River Coal Fields Photographic Collections.

Turner, Matthew, School of Communication. Co-PI: **Katherine Hawkins**, Dean of College of Humanities and Behavioral Sciences. **Margaret Devaney**, Dean of College of Visual and Performing Arts. Virginia Department of Education. **\$9,160**. *2016 (FY2017) Residential Governor's School Cost Proposal Supplement*. This grant provides funding to host the Summer Governor's School.

Turner, Matthew, School of Communication. Co-PI: **Katherine Hawkins**, Dean of College of Humanities and Behavioral Sciences. **Margaret Devaney**, Dean of College of Visual and Performing Arts. Virginia Department of Education. **\$769,511**. *2017 (FY2018) Residential Governor's School Cost Proposal*. This grant provides funding to host the Summer Governor's School.

Van Patten, Isaac, Criminal Justice. City of Roanoke, Virginia. **\$38,000**. *Roanoke Police Department 2017*. This project will embed Dr. Van Patten as a criminologist within the Roanoke Police Department to enhance the effectiveness of achieving crime reduction and crime management.

Wojdak, Jeremy, Biology. National Science Foundation. **\$136,585**. *Collaborative Research: Linking predator functional diversity to prey dynamics through the functional response*. This grant is to develop a novel framework for predicting the consequences of changes in predator diversity.

Wojdak, Jeremy, Biology. National Science Foundation. **\$298,846**. *Biology undergraduate Mathematics Attitudes and Anxiety Program (BioMAAP)*. This grant proposes to design, implement, and assess interventions to help undergraduate biology majors improve their attitudes and anxiety towards mathematics.

Wojdak, Jeremy, Biology. National Science Foundation. **\$116,053**. *Collaborative Research: Bio IUSE Ideas Lab: Supporting Faculty in Quantitative Undergraduate Biology Education and Synthesis (QUBES)*. This grant is to support the implementation of higher quality quantitative biology learning opportunities by addressing five interrelated goals: (1) supporting faculty acquisition and implementation of specific quantitative biology concepts and teaching resources; (2) increasing the visibility, utility and adoption of existing quantitative biology materials; (3) coordinating the efforts and resources of disparate communities invested in promoting quantitative biology education; (4) describing and tracking faculty contributions to quantitative biology education scholarship; and (5) studying and disseminating the features of this system that influence implementation success.

Wojdak, Jeremy, Biology. University of Pittsburgh (flow-through from National Science Foundation). **\$108,006**. *Collaborative Research: Bio IUSE Ideas Lab: Supporting Faculty in Quantitative Undergraduate Biology Education and Synthesis (QUBES)*. This grant is to support the implementation of higher quality quantitative biology learning opportunities by addressing five interrelated goals: (1) supporting faculty acquisition and implementation of specific quantitative biology concepts and teaching resources; (2) increasing the visibility, utility and adoption of existing quantitative biology materials; (3) coordinating the efforts and resources of disparate communities invested in promoting quantitative biology education; (4) describing and tracking faculty contributions to quantitative biology education scholarship; and (5) studying and disseminating the features of this system that influence implementation success.

