Funding Opportunities
January 27, 2017

University-Level Resources: Upcoming Classes in the Research Administration Training Series (RATS)

Grant Writing Academy (GWA) “Faculty Supporting Faculty to Strengthen Grant Proposals and Increase their Likelihood of Funding” May 5-7, 2017, The Silver Baron Lodge at Deer Valley

For complete information and to register for the May 2017 program, please contact Tony Onofrietti, Director, Research Education, at 801-585-3492 or at tony.onofrietti@hsc.utah.edu

NSF


Critical Techniques, Technologies and Methodologies for Advancing Foundations and Applications of Big Data Sciences and Engineering (BIGDATA)[nsf.gov] - The BIGDATA program seeks novel approaches in computer science, statistics, computational science, and mathematics, along with innovative applications in domain science, including social and behavioral sciences, education, biology, the physical sciences, and engineering that lead towards the further development of the interdisciplinary field of data science. The solicitation invites two categories of proposals: Foundations (F): those developing or studying fundamental theories, techniques, methodologies, and technologies of broad applicability to big data problems, motivated by specific data challenges and requirements; and Innovative Applications (IA): those engaged in translational activities that employ new big data techniques, methodologies, and technologies to address and solve problems in specific application domains. Projects in this category must be collaborative, involving researchers from domain disciplines and one or more methodological disciplines, e.g., computer science, statistics, mathematics, simulation and modeling, etc. Proposals in both categories must include a clear description of the big data aspect(s) that have motivated the proposed approach(es), for example: the scalability of methods with increasing data volumes, rates, heterogeneity; or data quality and data bias; etc. Innovative Applications proposals must provide clear examples of the impacts of the big data techniques, technologies and/or methodologies on (a) specific domain application(s). Full Proposal Window: March 15, 2017 - March 22, 2017.

The Emerging Frontiers in Research and Innovation (EFRI)[nsf.gov] program of the NSF Directorate for Engineering (ENG) serves a critical role in helping ENG focus on important emerging areas in a timely manner. This solicitation is a funding opportunity for interdisciplinary teams of researchers to embark on rapidly advancing frontiers of fundamental engineering research. For this solicitation, we will consider proposals that aim to investigate
emerging frontiers in the following two research areas: Advancing Communication Quantum Information Research in Engineering (ACQUIRE); and New Light, EM (Electronic) and Acoustic Wave Propagation: Breaking Reciprocity and Time-Reversal Symmetry (NewLAW). Full Proposal Deadline Date: March 24, 2017.

The National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)[nsf.gov] program addresses the need for a high quality STEM workforce in STEM disciplines supported by the program and for the increased success of low-income academically talented students with demonstrated financial need who are pursuing associate, baccalaureate, or graduate degrees in science, technology, engineering, and mathematics (STEM) [6][nsf.gov], [16][nsf.gov]. Full Proposal Deadline Date: March 29, 2017. As computing has become an integral part of the practice of modern science, technology, engineering and mathematics (STEM), the STEM + Computing Partnerships[nsf.gov] program seeks to address the urgent need to prepare students from the early grades through high school in the essential skills, competencies, and dispositions needed to succeed in a computationally-dependent world. Thus, STEM+C advances the integration of computational thinking and computing activities in early childhood education through high school (pre-K-12) to provide a strong and developmental foundation in computing and computational thinking through the integration of computing in STEM teaching and learning, and/or the applied integration of STEM content in pre-K-12 computer science education. Full Proposal Deadline Date: March 29, 2017.

The Industry-University Cooperative Research Centers (IUCRC)[nsf.gov] program develops long-term partnerships among industry, academe, and government. The Centers are catalyzed by an investment from the National Science Foundation (NSF) and are primarily supported by industry Center members, with NSF taking a supporting role in the development and evolution of the Center. Each Center is established to conduct research that is of interest to both the industry members and the Center faculty. An IUCRC contributes to the nation’s research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an IUCRC uses international collaborations to advance these goals within the global context. Preliminary Proposal Deadline Date: January 3, 2017. Full Proposal Target Date: February 28, 2017.

NIH

NIA Research Centers Coordinating Network (U24)[grants.nih.gov] - The purpose of this FOA is to support an initial series of activities over a 3-year period to build the foundation for enhanced collaborations across NIA’s 6 centers programs. These collaborations are intended to leverage NIA’s substantial investments by fostering the development of novel interdisciplinary efforts in aging research. This opportunity will provide resources to build additional infrastructure and establish specific collaborative activities that could include, but are not limited to, information and data exchange, meetings and conferences, pilot studies, research
opportunities for beginning investigators, visiting scholar programs, dissemination, and other collaborative efforts. The successful awardee will involve all 6 centers programs. Letter of Intent Due Date is May 8, 2017. Application Due Date is June 8, 2017.

**Quantitative Imaging Tools and Methods for Cancer Therapy Response Assessment (UG3/UH3)[grants.nih.gov]** - This Funding Opportunity Announcement (FOA) encourages research project applications under the cooperative agreement (UG3/UH3) mechanism to address the development, optimization and validation of quantitative imaging (QI) software tools and methods for prediction and/or measurement of response to cancer therapies or for planning and validating radiation therapy treatment strategies in clinical trials. Companion Funding Opportunity is PAR-17-129[grants.nih.gov]. Letter of Intent Due Date(s): April 9, 2017. Application Due Date(s): May 9, 2017; September 12, 2017; January 9, 2018; May 9, 2018; September 12, 2018; January 9, 2019; May 9, 2019; September 12, 2019; January 9, 2020.

**Research Program Award (R35)[grants.nih.gov]** - The purpose of the NINDS Research Program Award (RPA) is to provide longer-term support and increased flexibility to Program Directors (PDs) / Principal Investigators (PIs) whose outstanding records of research achievement demonstrate their ability to make major contributions to neuroscience. RPAs will support the overall research programs of NINDS-funded investigators for up to 8 years, at a level commensurate with a PD/PI's recent NINDS support (Part 2, Section II) This greater funding stability will provide investigators with increased freedom and flexibility which may allow them to be more adventurous in their research, to take greater risks, to embark upon research that breaks new ground, to undertake research projects that require a longer timeframe, and/or to extend previous discoveries in new directions. Research supported through the RPA must be within the scope of the NINDS mission (http://www.ninds.nih.gov/about_ninds/mission.htm[ninds.nih.gov]). Research activities outside of the NINDS mission, or traditionally supported by another NIH Institute or Center will not be considered through this program. Letter of Intent Due Date(s): February 21, 2017. Application Due Date(s): March 21, 2017.

**Department of Energy**

**Combined Heat and Power Technical Assistance Partnerships[eere-exchange.energy.gov]** - The U.S. Department of Energy’s (DOE) Office of Energy Efficiency and Renewable Energy’s (EERE) Advanced Manufacturing Office (AMO) seeks to further the installation of cost-effective, highly efficient combined heat and power (CHP). CHP is a suite of commercially available, predominately gas-fired distributed generation technologies that produce both electricity and thermal energy onsite, thereby reducing line losses and strain on grid infrastructure while also increasing site reliability and energy security. The promotion of CHP is part of the EERE mission to create and sustain American leadership in the transition to a strong and prosperous America powered by clean, domestic, affordable and secure energy for the industrial, manufacturing, commercial and multifamily sectors. Within AMO, CHP is the focus of both R&D and deployment activities, with R&D activities focused on new CHP technologies including hybrid
and also grid reactive controls. On the deployment side, the CHP Deployment Program conducts technical assistance activities that promote the use of combined heat and power to support U.S. economic competitive advantage, promote economic development, instill resiliency in businesses and communities, create and maintain local energy-related jobs, and provide sustainable solutions for modernizing energy generation and delivery. Today’s energy environment and technology solutions present an opportunity for continued deployment of CHP. The goal of this FOA is to solicit proposals from interested parties to become regional CHP Technical Assistance Partnerships (CHP TAPs) who will assist the CHP Deployment Program in the development of strategies to maximize CHP exposure to potential end-users and key stakeholders, and to locally promote best practices in CHP technology policies and installation. (For more information about the DOE/EERE CHP Deployment Program, visit https://energy.gov/eere/amo/chp-deployment[energy.gov]). Informational Webinar: The Informational Webinar mentioned in the FOA will be held on January 26, 2017 at 3:00 PM Eastern Standard Time. Attendance is not mandatory and will not positively or negatively impact the overall review of any Applicant submissions. Standard application questions regarding the EERE Office and FOA procedures will be discussed. No new information will be presented during the webinar and EERE will not answer any attendee questions during the webinar. To register for the webinar: https://attendee.gotowebinar.com/register/6295878727401909505[attendee.gotowebinar.com]. Letter of Intent Deadline: 2/14/2017 5:00 PM ET. Full Application Submission Deadline: 3/21/2017 5:00 PM ET.

Plasma Science Facilities[grants.gov] (click on Related Documents tab) - Energy (DOE), hereby announces its interest in receiving cooperative agreement proposals for research and operation of, and/or construction of, intermediate-scale facilities for frontier plasma science research. User facilities are sought that can address frontier plasma science questions in multiple research areas identified in the 2015 Frontiers of Plasma Science Workshops report. Specific research areas of interest include: • plasma dynamo (generation and amplification of magnetic fields); • magnetic reconnection (topological changes of the magnetic field lines); • particle acceleration by shocks, turbulence, and/or magnetic reconnection; • turbulent cascade and dissipation of energy in magnetized plasmas; and • formation of coherent structures in magnetized plasmas. Consistent with the recommendation made in the 2007 National Research Council report (Plasma Science: Advancing Knowledge in the National Interest by the Plasma 2010 Committee) and intermediate-scale research needs identified in the 2015 Frontiers of Plasma Science Workshops report, the goal of this FOA is to steward research that cannot be adequately addressed through small-scale, single-investigator projects (e.g., table-top experiments) and requires intermediate-scale facilities (e.g., experimental facilities larger than can be easily fielded by a single investigator but smaller than those at the larger national research installations). Pre-Application Due Date: 03/03/2017 at 5 PM Eastern Time (A Pre-Application is required). Encourage/Discourage Date: 03/17/2017 at 5 PM Eastern Time. Application Due Date: 5/05/2017 at 5 PM Eastern Time.
Open to all University faculty members from the Health Sciences and Main Campus!

The Research Education Grant Writing Academy (GWA) is an intensive, 2½ day program which applies proven strategies and techniques to:

- develop successful proposals for a variety of funding agencies
- write clear and concise aims that are specific, measurable and realistic
- communicate research priorities to enhance significance and impact
- build strategies for career development and research plan sections
- interpret program announcements and understand review criteria

The GWA offers a valuable and unique opportunity to focus on one's writing, to receive educated and constructive critique, to rewrite and recraft, and to repeat the evaluation and editing process toward a final draft.

Specific GWA features and benefits include:

- individual mentoring sessions with an experienced and diverse team of senior faculty members, key subject matter experts, and funding agency representatives (as available)
- practical writing skills, tools and resources; group training activities; specialized interactive presentations; and online instructional exercises
- networking and collaboration with peers across the University gaining broad perspective and essential knowledge for effective scientific and technical writing in higher education

The GWA provides a high faculty-to-participant ratio to facilitate the development of productive and independent research scientists. Attendance is highly limited! Registration fees for the May 2017 program include all curriculum materials, two nights lodging at Deer Valley Resort, use of recreational facilities, evening socials and most meals. A spouse/partner and up to two children are welcome to accompany the participant (supplemental charges apply for additional guests). If seed or personal funding is not available for the registration fee, the participant and his/her Department Chair or Research Dean is encouraged to contact Research Education to discuss other potential options.

For complete information and to register for the May 2017 program, please contact Tony Onofrietti, Director, Research Education, at 801-585-3492 or at tony.onofrietti@hsc.utah.edu.
Faculty Research Training Opportunities

Research Administration Training Series
Spring, 2017

Investigator Training Workshops are offered to all University faculty members and postdoctoral scholars. The program is designed to support both new and veteran investigators with the administration of their research. The workshops are led by Dr. Jeffrey R. Botkin, Associate VP for Research Integrity, and several senior administrators from key areas on campus. For more information and to register for classes, please visit our website at www.education.research.utah.edu or contact Tony Onofrietti, Director, Research Education at 801-585-3492 / tony.onofrietti@hsc.utah.edu.

Pre-Award Session
3:30pm – 5:30pm, Wednesday, February 1st
Research Administration Building (RAB) 117
Includes an overview of the organizational structure of research administration, the management of sponsored projects, current agency information, and tips for effective proposal preparation, processing and review.

Clinical Research Session
3:30pm - 5:30pm, Wednesday, March 1st
Research Administration Building (RAB) 117
University regulations regarding clinical trials, sponsor requirements and financial management practices will be described including an overview of good clinical practices and data management.

Post-Award Session
9:00am - 11:00am, Wednesday, February 15th &
3:30pm – 5:30pm, Wednesday, March 22nd
Research Administration Building (RAB) 117
Strategies for implementing the award process, effective project management, grants and contracts administration, compliance with agency rules, and financial reporting standards will be discussed.

Researcher Resources and Funding Searches Session
2:00pm - 4:00pm, Thursday, March 29th
Health Sciences Education Building, Lab 3100C
How to identify and target potential funding sources, how to use Community of Science and Grants Resource Center databases, and how to register with funding alert services will be shown.

Research Investigator Certificate
The Office of the Vice President for Research recognizes faculty and postdoctoral scholars who complete specialized instruction in research administration training by awarding an official Research Investigator Certificate. Complete program details are available at www.education.research.utah.edu | Certificate of Achievement
Research Education
Office of the Vice President for Research
Research Administration Training Series
Spring, 2017

Complete class descriptions, Certificate of Achievement program details, and online registration is available at our website at www.education.research.utah.edu. For more information, please contact Tony Onofrietti, Director, Research Education at 585-3492 / tony.onofrietti@hsc.utah.edu.

January Classes

- Introduction to eProposal
- Introduction to SciVal Funding
- Overview of Research Administration
- Understanding IRB Applications in ERICA
- Clinical Research Coord. Sponsored Projects Training
- Electronic Federal Grant Application using Cayuse 424

February Classes

- Financial Management in Clinical Research
- Investigator Training Workshop: Pre-Award Session
- Understanding IRB Report Submissions in ERICA
- Multi-Center Research Using a Single IRB (SIRB)
- Clinical Research Coordinator (CRC) Orientation
- Research Date Management, Sharing and Ownership in the Sciences, Engineering and Medicine
- Grant-Writing Workshop: Nat. Science Found. (NSF)
- Investigator Training Workshop: Post-Award Session
- Basics of Good Clinical Practices (GCP)
- Introduction to the Office of Sponsored Projects (OSP)
- Grant-Writing Workshop: Foundations and Charities
- Prep. for Investigator-Initiated Drug & Device Studies
- Electronic Federal Grant Application using Cayuse 424
- Researcher Resources and Funding Searches
- Introduction to ClinicalTrials.gov

March Classes

- Governing Regulations for Grants and Contracts
- Investigator Training Workshop: Clinical Research
- Introduction to Occupational and Environmental Health & Safety (OEHS) and Radiological Health
- Multi-Center Research Using a Single IRB (SIRB)
- Introduction to the IRB, the IACUC, and the IBC
- Proposal Preparation, Processing and Review
- Institutional Review Board and Human Subject Research
- Introduction to Research Integrity
- Protocol Billing Grids (PBG) and Medicare Coverage Analysis (MCA)
- Clinical Research Coord. Sponsored Projects Training
- Principles of Contracts, Subcontracts & SubAwards
- Electronic Federal Grant Application using Cayuse424
- Foundation Grant Searching Using Foundation Directory Online (FDO)
- Research Data Management and Sharing for Social & Behavioral Sciences and Humanities
- Introduction to SciVal Funding
- Project Management: Implementing Award Process
- Expanded Access to Investigational Drugs & Devices
- Budget Preparation and Development
- Investigator Training Workshop: Researcher Resources and Funding Searches
- Clinical Research Budget Development, Negotiation and Oversight

April Classes

- Multi-Center Research Using a Single IRB (SIRB)
- Clinical Research Coord. Sponsored Projects Training
- Informed Consent: Models and Requirements
- Introduction to Technology Venture & Commercialization and Intellectual Property
- Data and Safety Monitoring: Plans, Boards & Comm.
- Source Documentation for Clinical Research
- Research Participants & the Informed Consent Process
- Fundamentals of Effort Reporting, Audits and Recharge Centers
- Patent Searching and Public Information Resources
- Electronic Federal Grant Application using Cayuse424
- Clinical Research Coord. Sponsored Projects Training

May Classes

- Grant Writing Academy
Research Information Items

College of Engineering Executive Committee
January 20, 2017

1. **Electronic Notebooks (e-notebooks)**
   The university has now formalized a long-term site license with Lab Archives for electronic lab notebooks. These e-notebooks are very powerful and allows your students to upload information in most any form (Word, PDF, PowerPoint or other files, photographs, scans/photos of lab notebook pages, etc.). The electronic notebook provides a mechanism for archiving and backing up research information and for sharing with other team members.

   The e-Notebook system can be accessed at:
   http://campusguides.lib.utah.edu/labarchives

   Instruction for use are also included on the website. Faculty/staff/students have unlimited cloud storage with the Lab Archives e-notebook, and individual files up to 250 GB can be uploaded.

   Daureen Nesdill and Darrell Schmick (research librarians) have responsibility for data management and electronic notebooks, and would be happy to visit your faculty meeting to provide an overview/training. Their contact information is provided in the link above.

   From the University of Utah Research Handbook:
   *Faculty are responsible for the collection, management, maintenance and retention of research data, and for establishing and maintaining procedures for protection of essential records in the event of a natural disaster or other emergency.*

2. **Responsible Conduct of Research**
   Many federal agencies - including the National Science Foundation (NSF) and the National Institutes of Health (NIH) - require grantees to certify that they provide appropriate training and oversight in the responsible and ethical conduct of research (RCR). The NSF requirements apply to all postdoctoral scholars, graduate and undergraduate students participating on a funded project. NIH has similar requirements.

   University resources for meeting this requirement can be found here:
   http://osp.utah.edu/grant-life-cycle/develop-proposal/responsible-conduct.php
   http://campusguides.lib.utah.edu/reproducibility

3. **Faculty Writing Services**
   see attached handout

4. **Research Workshop for New Faculty** – February 27, 2017, noon – 2 pm, WEB 1850
Faculty Writing Services

Contact Justin Whitney at Justin.whitney@utah.edu or Jin Bi at Jin.bi@utah.edu.

The University Writing Center (UWC) and the Vice President for Research are proud to offer convenient writing assistance to faculty members working on projects such as grants, articles for publication, and research reports. The Faculty Writing Fellow can help faculty members with focusing arguments, organizing ideas, supporting claims, citing others’ works, and maintaining field conventions.

Correspondence is generally done by email but I would be happy to meet you in person. Please limit each submission to about 25 pages by breaking longer works into smaller pieces.

► Writing Assistance for Faculty:
  • Grants
  • Articles for Publication
  • Research Proposals
  • Conference Presentations
  • Curricula Vitae and resumés

► When contacting the writing fellow please include the following:
  • A description of the text, including length
  • The kind of help you desire