NEWS
ENGINEERING RESEARCH ADMINISTRATION
AUBURN UNIVERSITY
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Announcements

Council on Government Relations (COGR) Resource Page

The National Council of University Research Administrators released the Council on Government Relations (COGR) resource page for the recent administration transition. This document will help researchers navigate how and if their research will be impacted by the administrative change.

Access this document here.

Funding Opportunities

Engineering Design and Systems Engineering (EDSE)

National Science Foundation (NSF) **Proposals Accepted Anytime**
Areas of Interest: Systems Engineering, Design, Nanotechnology, Natural and Physical Sciences, Math and Technology

The Engineering Design and Systems Engineering (EDSE) supports fundamental research on the design of engineering artifacts - devices, products, processes, platforms, materials, organizations, systems, and systems of systems. The program focuses on design as a system, in which designers, the artifacts they create, the methods they use to create them, and the environment in which this occurs are all subject to rigorous scientific inquiry, along with the interactions among these elements.

In particular the EDSE program supports fundamental contributions in areas that include, but are not limited to:

- Design representation, optimization, and validation
- Mechanism design
- Robotics and intelligent system design
- Design of engineered materials systems
- Design cognition and collaboration
- Data science and artificial intelligence in design
- Design in under resourced communities

- Immersive design
- Design at extreme scales and in extreme environment

Read more about this funding opportunity here.

Manufacturing Systems Integration (MSI)

National Science Foundation (NSF)
Proposals Accepted Anytime
Areas of Interest: Automation, Digital Computers or Computing, Manufacturing Engineering, Systems

The Manufacturing Systems Integration (MIS) program supports research into the opportunities and challenges that digital technologies present for the next industrial revolution, such as: connectivity, automation, and secure collaboration in global manufacturing.

- Digital representation, protocols, and/or processes for integration and collaboration in manufacturing systems
- Intelligent self-organizing production systems
- Ease of use, interoperability and seamless integration of technologies, machines, and humans
- Service-oriented architectures and systems
- Data sets that are compatible and usable across platforms
- Reliable and secure communications within and across the manufacturing value chain
- Integration of distributed manufacturing systems across time and space
- Methods for assessing the impact and value of externalities throughout the life cycles within the digital environment

Read more about this funding opportunity here.

Research Focus

Research Priorities at the DOE

The US Department of Energy (DOE) provides important funding for researchers in the science and energy specializations. The next few months will give researchers an idea of how funding will be prioritized over the current presidential term. Understanding how these prioritizations will impact different departments, including the DOE, will help researchers know what research areas will receive funding.

The following have been announced as DOE priorities:

- **Advance Energy Addition**
- **Apply American Energy Innovation:** prioritize affordable, reliable, and secure energy technologies, including fossil fuels, advanced nuclear, geothermal, and hydropower.
- **Return to Regular Liquefied National Gas (LNG) Exports**
- **Promote Consumer Choice and Affordability in Hope Appliances**
- **Fill the Strategic Petroleum Reserve (SPR)**
- **Modernize America's Nuclear Stockpile:** develop, modernize, and steward America's atomic weapon enterprise, including the peaceful use of nuclear technology and nonproliferation.
- **Unleash Commercial Nuclear Power in the United States:** lead the commercialization of affordable and abundant nuclear energy.
- **Strengthen Grid Reliability and Security:** strengthen the nation's grid, including the backbone of the grid, our transmission system.
- **Streamline Permitting and Identify Undue Burdens on American Energy**

Even though the above points of interest have been announced, it is important to keep up to date with developments. This can be done by gathering information as it becomes available, ensuring the information gathered is accurate, and separating facts from fiction.

Some resource information sources include:

- Federal Agency Announcements (NIH, NSF, DoED, USDA, NEH, and more)
- The Science Press (Science Policy Updates and the Science News and Science Insider)
- The NORDP Listserve
- Social Media and Blogs
- Legacy News Outlets

Finding federal funding during the changes of administration can be confusing and unsettling. Through checking information and seeking out a variety of funding sources researchers can make sure they are prepared and ready to find finding for their research.

Adapted from the February edition of the Research Development and Grant Writing Newsletter

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