

# U.S. Department of Energy

## Opportunities for Universities

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**The mission of the Energy Department is to ensure America's security and prosperity by addressing its energy, environmental and nuclear challenges through transformative science and technology solutions.**

### Energy

- Catalyze the timely, material, and efficient transformation of the nation's energy system and secure U.S. leadership in clean energy technologies.

### Science and Innovation

- Maintain a vibrant U.S. effort in science and engineering as a cornerstone of our economic prosperity with clear leadership in strategic areas.

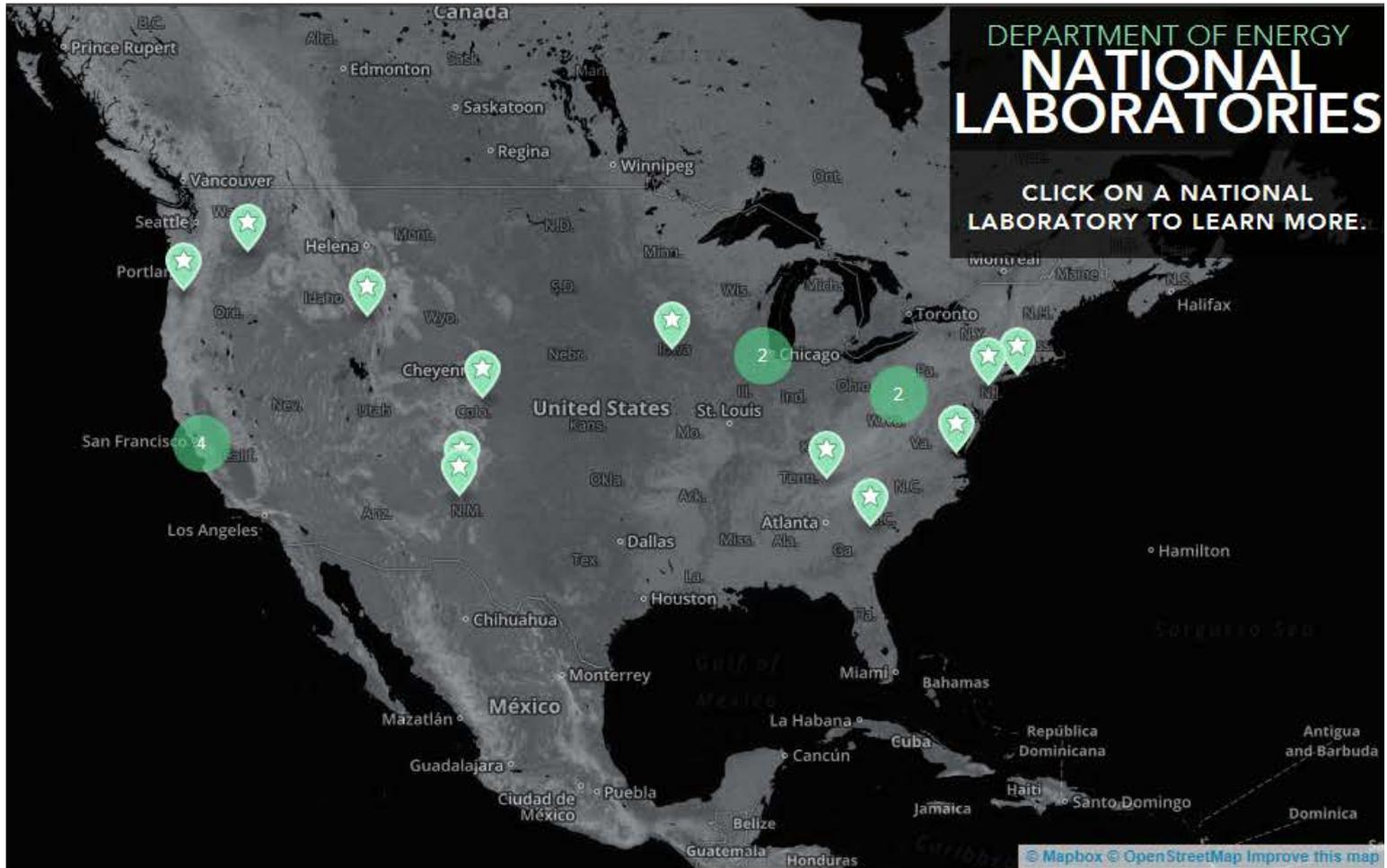
### Nuclear Safety and Security

- Enhance nuclear security through defense, nonproliferation, and environmental efforts.

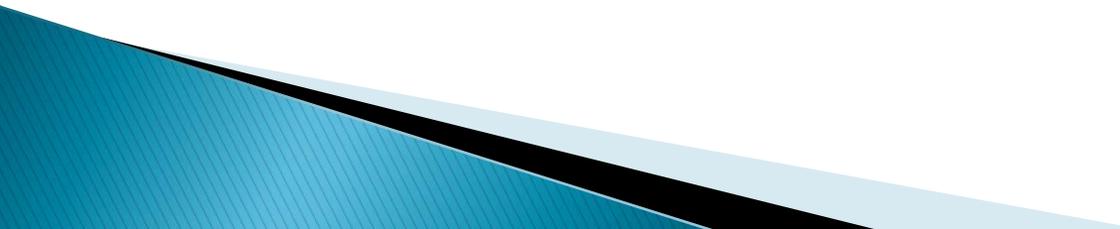
# Program and Staff Offices

- ▶ **Advanced Research Projects Agency – Energy**
- ▶ **Loan Programs Office**
- ▶ **Office of Electricity Delivery & Energy Reliability**
- ▶ **Office of Economic Impact and Diversity**
- ▶ **Office of Energy Efficiency & Renewable Energy**
- ▶ **Office of Energy Policy and Systems Analysis**
- ▶ **Office of Environmental Management**
- ▶ **Office of Fossil Energy**
- ▶ **Office of Indian Energy Policy and Programs**
- ▶ **Office of Legacy Management**
- ▶ **Office of Nuclear Energy**
- ▶ **Office of Science**

# DOE National Laboratories

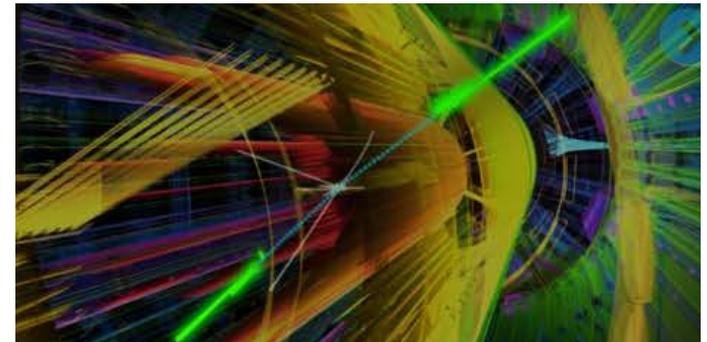


# FY 2017 Budget Request

- ▶ The President's FY 2017 Budget provides a total of \$32.5 billion to support the Department of Energy in the areas of:
    - ▶ nuclear security
    - ▶ clean energy
    - ▶ environmental cleanup
    - ▶ climate change response and
    - ▶ science and innovation
- 

# FY 2017 Budget Request (cont'd)

- ▶ Mandatory spending proposals to support:
  - Increased investment in leading-edge science and technology
  - New research facilities to advance the frontiers of science; advanced manufacturing institutes
  - Implementation of the Administration's strategy for nuclear waste management: and
  - Crosscutting initiatives to further technological innovation using an enterprise-wide approach to research efforts



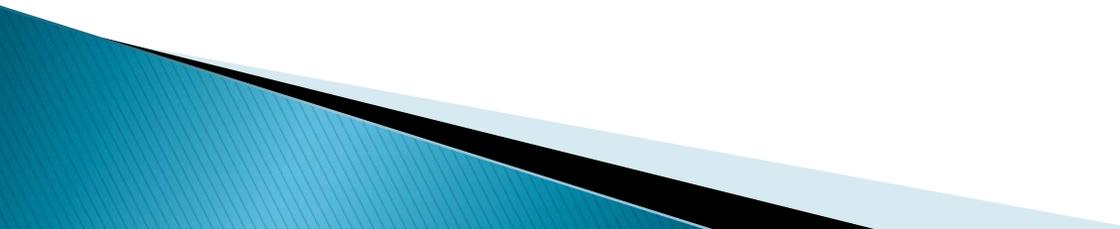
# FY2017 Budget Request (Cont'd)

## Science and Technology

- ▶ The Request supports transformational R&D in critical science and technology areas, including
  - Advanced manufacturing,
  - Renewable energy,
  - Sustainable transportation,
  - Energy efficiency,
  - Electricity grid modernization,
  - Advanced nuclear reactors, and
  - Fossil energy with carbon capture and storage.

Additional information on the budget request can be found at [energy.gov](http://energy.gov)

# Mission Innovation

- ▶ The landmark commitment to accelerate public and private global clean energy innovation announced at the start of the Paris climate negotiations.
  - ▶ The U.S. is seeking to double clean energy research and development (R&D) funding in five years
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# Existing Programs – Visiting Faculty Program

- ▶ Seeks to increase the research competitiveness of faculty members and their students at institutions historically underrepresented in the research community in order to expand the workforce vital to the Department of Energy (DOE) mission areas.
- ▶ As part of the program, selected university/college faculty members collaborate with DOE laboratory research staff on a research project of mutual interest. Faculty member participants may invite up to two students (one of which may be a graduate student) to participate in the research project.
- ▶ May through August 2017
- ▶ Application not yet open for '17



# Existing Programs– Early Career Research Program

- ▶ Supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science.
- ▶ Opportunities exist in the following program areas: Advanced Scientific Computing Research (ASCR); Biological and Environmental Research (BER); Basic Energy Sciences (BES), Fusion Energy Sciences (FES); High Energy Physics (HEP), and Nuclear Physics (NP).
- ▶ Application deadline **November 14, 2016.**
- ▶ Additional information:  
<http://science.energy.gov/grants/foas/open/>

# User Facilities



- ▶ Federally sponsored research facility available for external use to advance scientific or technical knowledge
- ▶ Provide researchers with the most advanced tools of modern science including accelerators, colliders, supercomputers, light sources and neutron sources, as well as facilities for studying the nanoworld, the environment, and the atmosphere.

# How does a prospective user gain access to a User Facility?

- ▶ Each facility manages the allocation of facility resources through merit-based peer review of submitted research proposals, with regular oversight by its federal sponsor.
- ▶ Calls for proposals take place at regular intervals as indicated on each facility's website.
- ▶ Prospective users may propose independent or collaborative research.
- ▶ There is no charge for users who are doing non-proprietary work, with the understanding that they are expected to publish their results.
- ▶ Access is also available on a cost-recovery basis for proprietary research that is not intended for publication.
- ▶ After proposals are reviewed and time at the facility is awarded, facility staff helps users prepare to visit the facility in order to conduct their research efficiently.

# Nuclear Energy University Partnership (NEUP)

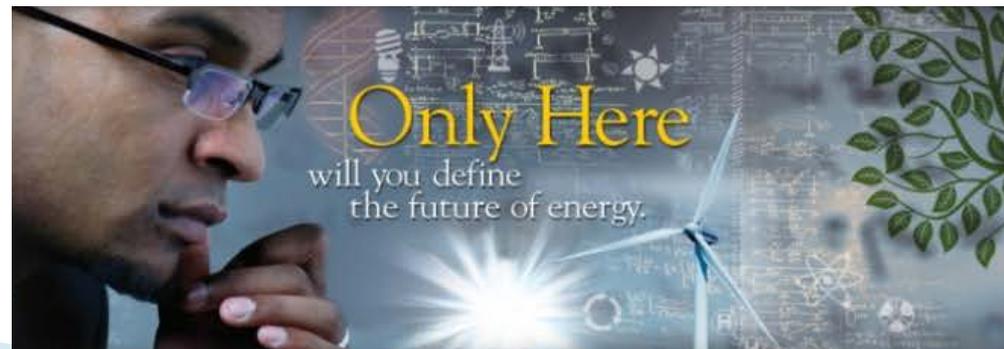


- ▶ Engages U.S. colleges and universities to conduct R&D, enhance infrastructure and support student education thereby helping to sustain a world class nuclear energy and workforce capability.
- ▶ Goal to integrate R&D at universities, national laboratories, and industry to revitalize nuclear education and support NE's R&D program objectives:
  - Attract the brightest students to the nuclear professions
  - Improve relevant university and college infrastructures for conducting nuclear energy related R&D and educating students, and;
  - Facilitate the transfer of knowledge from an aging nuclear workforce to the next generation of workers.

<https://neup.inl.gov>

# Opportunities for Students

- ▶ The Energy Department offers an unequalled variety of opportunities for individuals in a wide range of professional disciplines: from science and engineering to business and program analysis.
- ▶ Most Federal job opportunities require personnel to be U.S. citizens. \*\* However, non-U.S. citizens may apply for some opportunities at our national labs. The citizenship requirements are identified on each job opportunity announcement. \*\*



# Student Programs

The Energy Department offers an unequalled variety of opportunities for individuals in a wide range of professional disciplines: from science and engineering to business and program analysis.

- ▶ Graduate Student Research Program
- ▶ Internships (federal, laboratory, stipend based)
  - Pathways
  - SULI, CCI
  - Mickey Leland Energy Fellowship, Minority Educational Institution Student Partnership Program, etc.
- ▶ Nuclear Energy University Partnership
- ▶ Competitions
  - Collegiate Wind Competition
  - Clean Energy Business Prize Competition
  - Solar Decathlon



## SEARCH GRANTS

### BASIC SEARCH CRITERIA:

Keyword(s):

Opportunity Number:

CFDA:

**SEARCH**

- AGENCY: [X] All Department of Energy [DOE], [X] All Department of Energy - Office of Science [PAMS]
- ELIGIBILITY: [X] Private institutions of higher education, [X] Public and State controlled institutions of higher education

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**SORT BY:**  **Update Sort**

**DATE RANGE:**  **Update Date Range**

### 1 - 9 OF 9 MATCHING RESULTS:

Opportunity Number	Opportunity Title	Agency	Opportunity Status	Posted Date ↓	Close Date
DE-FOA-0001671	University Turbine Systems Request for Information FY17	DOE-NETL	Posted	09/29/2016	10/24/2016
DE-FOA-0001516	FY2017 Scientific Infrastructure Support for CINR Funding Opportunity Announcement	DOE-ID	Posted	09/01/2016	11/23/2016
DE-FOA-0001515	FY2017 Consolidated Innovative Nuclear Research Funding Opportunity Announcement	DOE-ID	Posted	08/10/2016	02/15/2017
DE-FOA-0001461	Funding Opportunity Announcement (FOA) Number DE-FOA-0001461, Modification 000001: Co-Optimization of Fuels and Engines	DOE-GFO	Posted	08/01/2016	10/17/2016
DE-FOA-0001625	Early Career Research Program	PAMS-SC	Posted	07/28/2016	11/14/2016
DE-FOA-0001623	Notice of Intent (NOI) DE-FOA-0001623 to Issue Funding Opportunity Announcement DE-FOA-0001461	DOE-GFO	Posted	07/15/2016	
DE-FOA-0001487	NEUP Fellowship and Scholarship Support	DOE-ID	Posted	01/21/2016	01/31/2021
DE-SOL-0008246	RFI - DOE R	DOE	Posted	01/14/2016	
DE-SOL-0008318	RFI - DOE Infrastructure Work Scope Development	DOE	Posted	01/14/2016	

### OPPORTUNITY STATUS:

- Forecasted (0)
- Posted (9)
- Closed (19)
- Archived (88)

### FUNDING INSTRUMENT TYPE:

- All Funding Instruments
- Cooperative Agreement (4)
- Grant (4)
- Other (4)

### ELIGIBILITY:

- All Eligibilities
- For profit organizations other than small businesses (1)
- Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education (2)
- Nonprofits that do not have a 501(c)(3) status

### CATEGORY:

8 current postings for colleges and universities

# Points of Contact

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