

DOE Office of Science Update

Natalia Melcer, Michael Zarkin, and Cynthia Anderson

Senior Technical Advisor (Office of the Deputy Director for Science Programs), Director (Office of Sponsored Activities), Deputy Assistant Manager (Office of Grants and Cooperative Agreements)

October 29, 2024



U.S. DEPARTMENT OF
ENERGY

Office of
Science

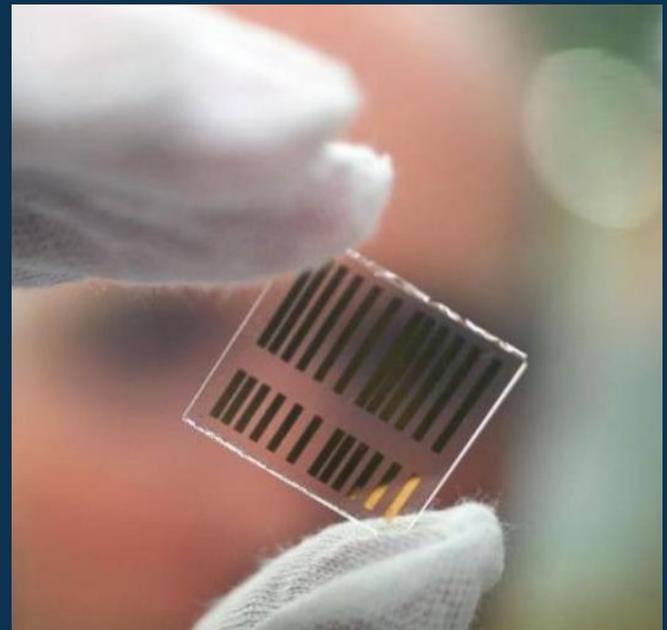
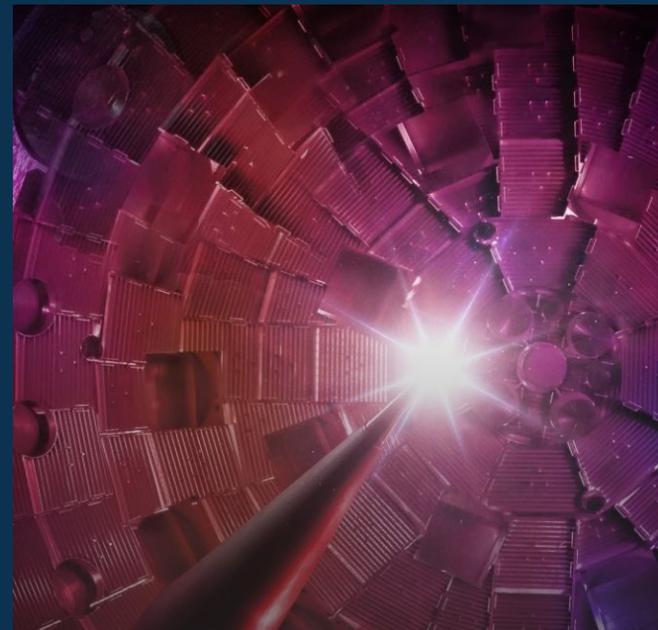
[Energy.gov/science](https://www.energy.gov/science)



U.S. DEPARTMENT OF **ENERGY**

DOE Mission: Ensure America's security and prosperity by addressing its energy, environmental and nuclear challenges through transformative science and technology solutions

- Energy
- Science and Innovation
- Nuclear Safety and Security
- Management Excellence





U.S. DEPARTMENT OF
ENERGY

Office of
Science

SC Mission: Delivery of scientific discoveries and major scientific tools to transform our understanding of nature and advance the energy, economic, and national security of the United States.



Over 29,000 Researchers Supported; at >300 Institutions and 16 DOE Labs



Steward 10 of the 17 DOE National labs



Nearly 40,000 Users of 28 SC Scientific Facilities



\$8.6B
(FY 2025 Request)

The Nation's largest supporter of basic research in the physical sciences



Driving Discovery Science for the Nation

Discovery science supported by the Office of Science builds the foundation for ensuring America's future prosperity and competitiveness by addressing its energy, environment, and national security challenges.

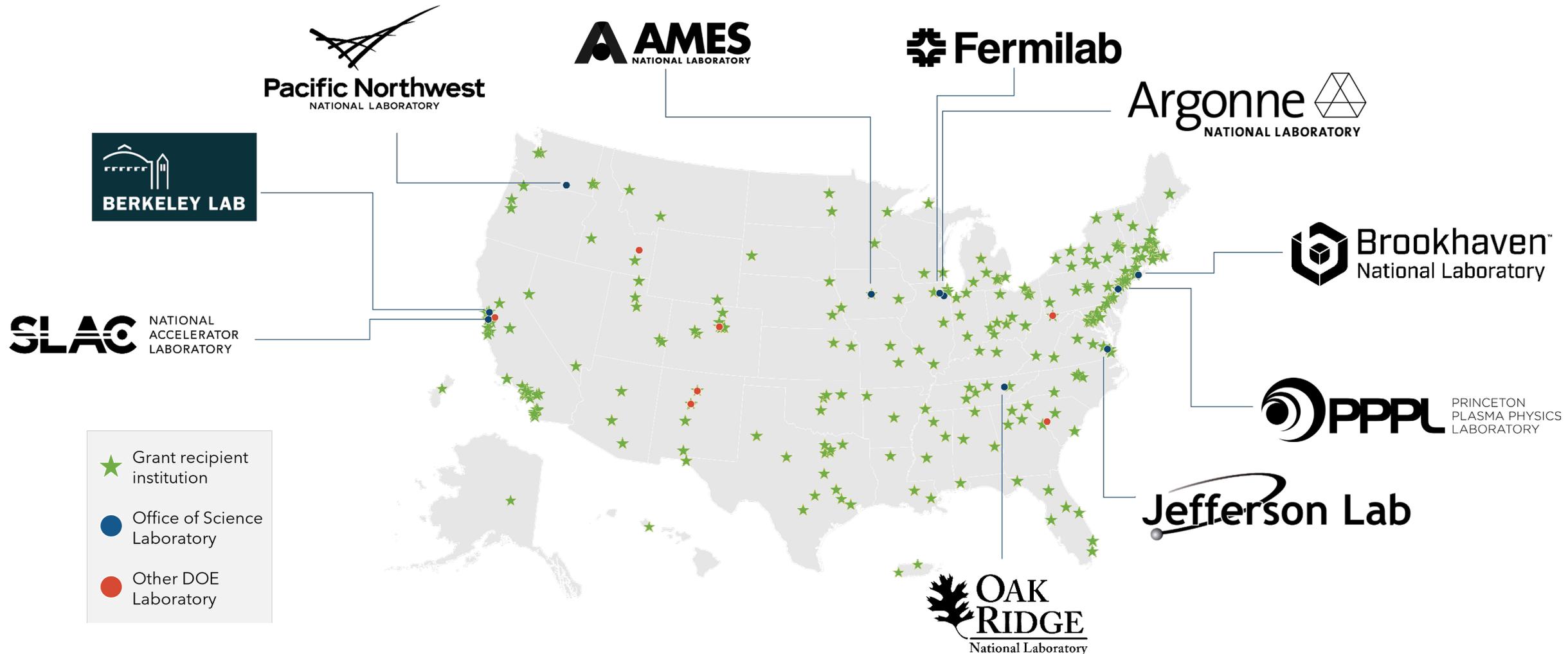
Fostering Great Minds and Great Ideas

The Office of Science addresses the world's most challenging scientific problems, supporting innovation from America's brightest minds, across multiple disciplines, and at universities, DOE's national laboratories, and other research institutions.

Providing Unique, World-Class Facilities

The Office of Science stewards a suite of scientific user facilities that provide the broad scientific community with world-leading capabilities for research - from physics, materials science, and chemistry to genomics and medicine.

Where we are, who we support



The Office of Science Research Portfolio

Advanced Scientific Computing Research

- ◆ Delivering world-leading computational and networking capabilities to extend the frontiers of science and technology

Basic Energy Sciences

- ◆ Understanding, predicting, and ultimately controlling matter and energy flow at the electronic, atomic, and molecular levels

Biological and Environmental Research

- ◆ Understanding complex biological, earth, and environmental systems

Fusion Energy Sciences

- ◆ Building the scientific foundations for a fusion energy source

High Energy Physics

- ◆ Understanding how the universe works at its most fundamental level

Nuclear Physics

- ◆ Discovering, exploring, and understanding all forms of nuclear matter

Isotope R&D and Production

- ◆ Supporting National Preparedness for isotope production and distribution

Accelerator R&D and Production

- ◆ Supporting new technologies for use in SC's scientific facilities and in commercial products



OFFICE OF SCIENCE BY THE NUMBERS

Delivering scientific discoveries and major scientific tools to transform our understanding of nature and advance the energy, economic, and national security of the United States

FY23

6 CORE SCIENCE PROGRAMS

- Advanced Scientific Computing Research
- Basic Energy Sciences
- Biological and Environmental Research
- Fusion Energy Sciences
- High Energy Physics
- Nuclear Physics

3 ENGINEERING AND TECHNOLOGY OFFICES

- Accelerator Research and Development and Production
- Isotope Research and Development and Production
- Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR)

5 NATIONAL QUANTUM INFORMATION SCIENCE RESEARCH CENTERS

ACROSS ITS 10 NATIONAL LABS, OFFICE OF SCIENCE MAINTAINS APPROXIMATELY

24 MILLION
SQUARE FEET OF SPACE

1,600
BUILDINGS

38,000
ACRES OF
LAND OWNED

SUPPORTS RESEARCH SPANNING

16
DOE NATIONAL LABS

50
STATES, GUAM,
PUERTO RICO, AND
WASHINGTON, D.C.

>310
UNIVERSITIES AND
HIGHER-LEARNING
INSTITUTIONS

4

BIOENERGY RESEARCH CENTERS

2

ENERGY INNOVATION HUB PROGRAMS

STEWARDS

10

DOE NATIONAL LABORATORIES

ESTIMATED RESEARCHERS SUPPORTED

11,100 Permanent PhDs

3,400 Postdoctoral Associates

5,200 Graduate Students

9,700 Other Scientific Personnel

OVER

39,500

USERS AT

28

OFFICE OF SCIENCE FACILITIES

10

SITE OFFICES

1

CONSOLIDATED SERVICE CENTER

OVER

100

NOBEL PRIZES

\$8.1 BILLION

OVERALL OFFICE OF SCIENCE BUDGET

\$918 MILLION

USER FACILITY CONSTRUCTION

\$281 MILLION

SCIENCE LABORATORIES INFRASTRUCTURE

3

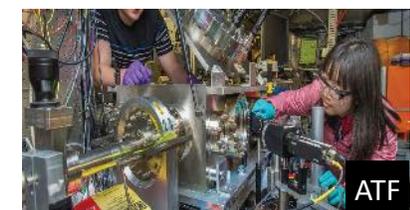
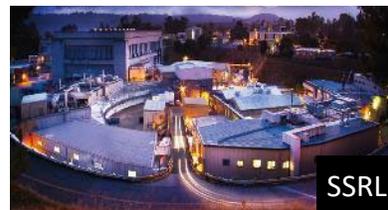
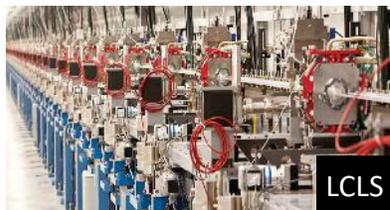
World-Leading Supercomputers

51

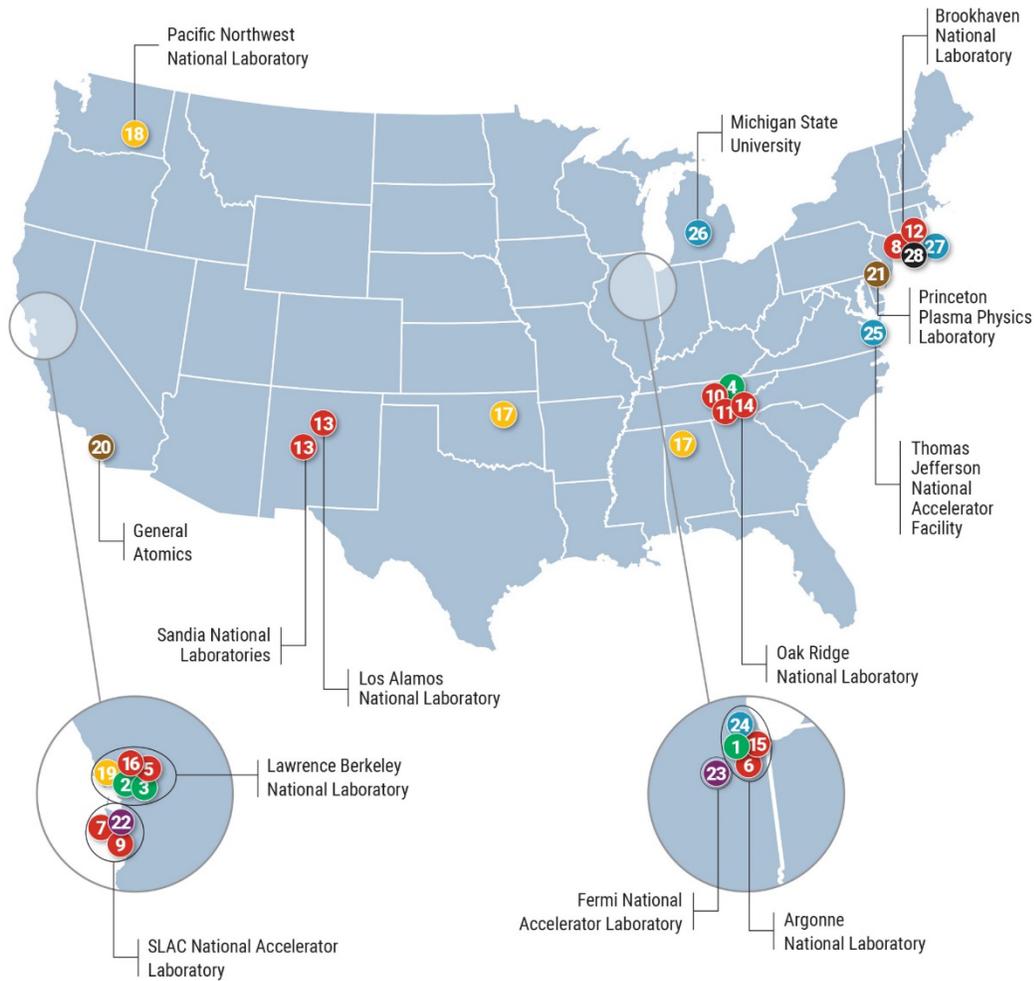
ENERGY FRONTIER RESEARCH CENTERS

Office of Science User Facilities

FY 2025
28 scientific
user facilities and
nearly 40,000
users



U.S. Department of Energy Office of Science User Facilities



Advanced Scientific Computing Research (ASCR)

- 1 Argonne Leadership Computing Facility (ALCF)
Argonne National Laboratory
- 2 Energy Sciences Network (ESnet)
Lawrence Berkeley National Laboratory
- 3 National Energy Research Scientific Computing Center (NERSC)
Lawrence Berkeley National Laboratory
- 4 Oak Ridge Leadership Computing Facility (OLCF)
Oak Ridge National Laboratory

Basic Energy Sciences (BES)

LIGHT SOURCES

- 5 Advanced Light Source (ALS)
Lawrence Berkeley National Laboratory
- 6 Advanced Photon Source (APS)
Argonne National Laboratory
- 7 Linac Coherent Light Source (LCLS)
SLAC National Accelerator Laboratory
- 8 National Synchrotron Light Source II (NSLS-II)
Brookhaven National Laboratory
- 9 Stanford Synchrotron Radiation Lightsource (SSRL)
SLAC National Accelerator Laboratory

NEUTRON SOURCES

- 10 High Flux Isotope Reactor (HFIR)
Oak Ridge National Laboratory
- 11 Spallation Neutron Source (SNS)
Oak Ridge National Laboratory

NANOSCALE SCIENCE RESEARCH CENTERS

- 12 Center for Functional Nanomaterials (CFN)
Brookhaven National Laboratory
- 13 Center for Integrated Nanotechnologies (CINT)
Sandia National Laboratories and
Los Alamos National Laboratory
- 14 Center for Nanophase Materials Sciences (CNMS)
Oak Ridge National Laboratory
- 15 Center for Nanoscale Materials (CNM)
Argonne National Laboratory
- 16 The Molecular Foundry (TMF)
Lawrence Berkeley National Laboratory

Biological and Environmental Research (BER)

- 17 Atmospheric Radiation Measurement (ARM)
User Facility
Fixed and Mobile Sites Across the Globe
- 18 Environmental Molecular Sciences Laboratory (EMSL)
Pacific Northwest National Laboratory
- 19 Joint Genome Institute (JGI)
Lawrence Berkeley National Laboratory

Fusion Energy Sciences (FES)

- 20 DIII-D National Fusion Facility
General Atomics
- 21 National Spherical Torus Experiment Upgrade (NSTX-U)
Princeton Plasma Physics Laboratory

High Energy Physics (HEP)

- 22 Facility for Advanced Accelerator Experimental Tests (FACET)
SLAC National Accelerator Laboratory
- 23 Fermilab Accelerator Complex
Fermi National Accelerator Laboratory

Nuclear Physics (NP)

- 24 Argonne Tandem Linac Accelerator System (ATLAS)
Argonne National Laboratory
- 25 Continuous Electron Beam Accelerator Facility (CEBAF)
Thomas Jefferson National Accelerator Facility
- 26 Facility for Rare Isotope Beams (FRIB)
Michigan State University
- 27 Relativistic Heavy Ion Collider (RHIC)
Brookhaven National Laboratory

Accelerator R&D and Production (ARDAP)

- 28 Accelerator Test Facility (ATF)
Brookhaven National Laboratory

Office of Science User Facilities

- Open to all interested potential users without regard to nationality or institutional affiliation
- Each facility manages the allocation of facility resources through merit-based peer review of research proposals
- User fees are not charged for non-proprietary work if the user intends to publish the research results in the open literature
- Full cost recovery is required for proprietary work



<https://science.osti.gov/User-Facilities/User-Resources>

SC Internship Programs and Opportunities



- Science Undergraduate Laboratory Internships
- Community College Internships
- Office of Science Graduate Student Research
- Visiting Faculty Program

science.osti.gov/wdts

National Science Bowl

- Fast-paced question-and-answer competition
- More than 14,000 middle and high school students compete each year
- Since 1991, 335,000 students have faced off in National Science Bowl® competitions.



More Info

- Office of Science Office Hours - <https://science.osti.gov/officehours>
 - September 2024 - PIER Plans
 - October 2024 - Open Call
- Solicitation Webinars and Office Hours
 - Check the solicitation for details
 - <https://science.osti.gov/grants/FOAs/Open>
- GovDelivery
 - Email subscription service for SC news and information, including solicitations.
 - <https://science.osti.gov/> → Stay Connected at top.



Working with DOE

- The Department of Energy has been described as the department of windmills, weapons, quarks, and quagmires
- DOE Federal personnel are organized by program offices—some of which are at considerable geographic separation
- Program offices may use different information systems and restrict access from other offices
- Please direct inquiries appropriately: there is no overall or central DOE “grants” or “research” office

Working with DOE

Office	Mission	Information System	Location(s)
Office of Science	Basic research	PAMS	Germantown, MD (program) Chicago, IL (awards)
ARPA-E	High-risk applied research	ARPA-E Exchange	Washington, DC
EERE	Energy efficiency, renewable energy	EERE Exchange	Golden, CO
Offices of Fossil Energy and Carbon Management, Nuclear Energy, Electricity, CESER	Applied research	FedConnect (and some Exchange)	Germantown, MD (program) Washington, DC (program) Pittsburgh, PA (awards) Morgantown, WV (awards)

DOE's Grantmaking Chain of Authority



This is the same process required for procurement contracts. DOE applies it to financial assistance, as well.

EERE Exchange

Secure | https://eere-exchange.energy.gov

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

EERE Home | Programs & Offices | Consumer Information

EERE Funding Opportunity Exchange

Funding Opportunities

EERE » [Financial Opportunities](#) » Funding Opportunity Exchange [Printable Version](#)

- Funding Opportunity
- Funding Archive
- Login
- Register
- Manuals
- Questions & Answers

Frequently Asked Questions

Do you have questions specific to your FOA? Applicants are encouraged to review the [Question & Answer](#) tab of your FOA to see if your question has already been asked.

Overview: Exchange Lab Calls and AOP Tool Integration

For Lab Users who are required to use eXCHANGE to submit Full Application in response to a Lab Call, click [here](#) to view information on data integration with AOP Tool.

EERE FUNDING OPPORTUNITY ANNOUNCEMENTS

[Jump to a FOA:](#)

FOA Number	FOA Title	Announcement Type	Program	LOI Deadline	CP Deadline	FA Deadline
DE-FOA-0001001	EERE Commercialization	Request for Information (RFI)	Strategic Programs			TBD
DE-FOA-0001070	RFI - Net Benefits and Costs of Distributed Solar Energy and Innovative Solar Deployment Models	Request for Information (RFI)	Solar			TBD
DE-FOA-0001122	RFI - Clean Energy Manufacturing Topics Suitable for Establishment of a Manufacturing Institute	Request for Information (RFI)	Advanced Manufacturing (Industrial)			TBD
DE-FOA-0001126	SUNSHOT CATALYST PRIZE	Other	Solar			TBD
DE-FOA-0001133	RFI - Research and Development Needs and Technical Barriers for Fuel Cells	Request for Information (RFI)	Hydrogen and Fuel Cells			TBD
DE-FOA-0001158	RFI - Specific Clean Energy Manufacturing Focus Areas Suitable for a Manufacturing Innovation Institute	Request for Information (RFI)	Advanced Manufacturing (Industrial)			TBD
DE-FOA-0001165	RFI - Advanced Manufacturing Office (AMO) Software Tools	Request for Information (RFI)	Advanced Manufacturing (Industrial)			TBD
DE-FOA-0001203	Assisting Federal Facilities with Energy Conservation Technologies - Fiscal Year 2015	Request for Information (RFI)	Federal Energy Management			TBD
DE-FOA-0001221	Notice of Intent to Issue FOA Next generation of Electrical Machines (DE-FOA-0001208)	Notice of Intent to Publish FOA (NOI)	Advanced Manufacturing (Industrial)			TBD
DE-FOA-0001253	Notice of Intent to Issue FOAs: State Energy Program 2015 Competitive Awards	Notice of Intent to Publish FOA (NOI)	Weatherization and Intergovernmental			TBD
DE-FOA-0001266	Notice of Intent to Issue FOAs: SunShot Incubator Round 10, SolarMat Round 3, SunPath Round 2	Notice of Intent to Publish FOA (NOI)	Solar			TBD
DE-FOA-0001284	Notice of Intent to Issue Funding Opportunity Announcement DE-FOA-0001274: Cleantech University Prize	Notice of Intent to Publish FOA (NOI)	Strategic Programs			TBD
DE-FOA-0001318	Request for Information - Solar Big Data and Informatics	Request for Information (RFI)	Solar			TBD
DE-FOA-0001332	Request for Information: Cities Leading through Energy Analysis and Planning (Cities-LEAP)	Request for Information (RFI)	Strategic Programs			TBD
DE-FOA-0001340	Notice of Intent to Issue Funding Opportunity Announcement: Industrial Assessment Centers Technical Field Managers	Notice of Intent to Publish FOA (NOI)	Advanced Manufacturing (Industrial)			TBD

ARPA-E FOA

Secure | https://arpa-e-foa.energy.gov

Apps For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...

Funding Opportunity Exchange

arpa-e

Funding Opportunities

Printable Version Login

ARPA-E FUNDING OPPORTUNITY ANNOUNCEMENTS

Jump to a FOA:

FOA Number	FOA Title	Announcement Type	NOI Deadline	CP Deadline	FA Deadline
DE-FOA-0001858	OPEN 2018	Funding Opportunity Announcement (FOA)		2/16/2018 09:30 AM ET	7/2/2018 09:30 AM ET
DE-FOA-0001906	DURATION ADDITION TO ELECTRICITY STORAGE (DAYS)	Funding Opportunity Announcement (FOA)	6/15/2018 05:00 PM ET		7/2/2018 05:00 PM ET
DE-FOA-0001952	Support Grants for Participation in ARPA-E Grid Optimization (GO) Competition Challenge 1	Funding Opportunity Announcement (FOA)			9/7/2018 09:30 AM ET
RFI-0000034	Announcement of Teaming Partner List for an upcoming Funding Opportunity Announcement: Enabling a New Generation of High Performance and Durable Heat Exchangers for High Temperature and High Pressure	Teaming Partner List			

DE-FOA-0001858: OPEN 2018

This FOA marks the fourth OPEN solicitation in the history of ARPA-E. The previous OPEN solicitations were conducted at the inception of the agency in 2009 and again in 2012 and 2015. OPEN 2018 therefore continues the three-year periodic cycle for ARPA-E OPEN solicitations. An OPEN solicitation provides a vitally important mechanism for the support of innovative energy R&D that complements the other primary mechanism, which is through the solicitation of research projects in focused technology programs.

ARPA-E's focused programs target specific areas of technology that the agency has identified, through extensive interaction with the appropriate external stakeholders, as having significant potential impact on one or more of the Mission Areas described in Section 1.A of the FOA. Awards made in response to the solicitation for focused programs support the aggressive technical targets established in that solicitation. Taken in total, ARPA-E's focused technology programs cover a significant portion of the spectrum of energy technologies and applications.

ARPA-E's OPEN FOAs ensure that the agency does not miss opportunities to support innovative energy R&D that falls outside of the topics of the focused technology programs or that develop after focused solicitations have closed. OPEN FOAs provide the agency with a remarkable sampling of new and emerging opportunities across the complete spectrum of energy applications and allow the agency to "take the pulse" of the energy R&D community. OPEN FOAs have been and will continue to be the perfect complement to the agency's focused technology programs – a unique combination of approaches for supporting the most innovative and current energy technology R&D. Indeed, one third of the sixty projects featured in the first two volumes describing ARPA-E impacts stem from OPEN solicitations (<https://arpa-e.energy.gov/?q=site-page/arpa-e-impact>). Potential applicants to this FOA are strongly encouraged to examine the OPEN projects in these two volumes and all of the projects supported in the previous three OPEN solicitations (<https://arpa-e.energy.gov/?q=site-page/open>) for examples of the creative and innovative R&D ARPA-E seeks in its OPEN solicitations.

Webinar: In this Webinar, an ARPA-E Program Director provides an overview of OPEN 2018 Full Application Best Practices: [Webinar - OPEN 2018 Full Application Best Practices](#)

DOCUMENTS

- [OPEN 2018 FOA - Full Application_Mod 03](#) (Last Updated: 5/23/2018 10:06 AM ET)
- [ARPA-E OPEN 2018 Full Application Best Practices](#) (Last Updated: 5/23/2018 10:05 AM ET)

[View Previous Versions](#)

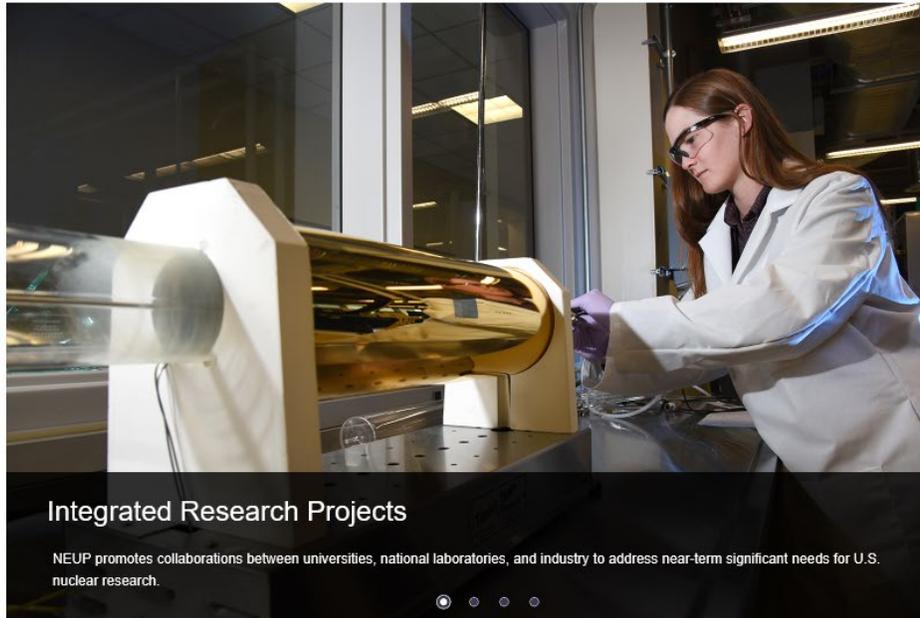
REQUIRED APPLICATION DOCUMENTS

NEUP



[Sign In](#) | [Contact Us](#)

- [Home](#)
- [About Us](#)
- [Infrastructure](#)
- [R & D](#)
- [IRP](#)
- [Student Educational Support](#)
- [Principal Investigators](#)
- [Reviewers](#)
- [Archives](#)



Announcements

DOE Releases Draft Workscopes for the FY 2019 CINR FOA Webinar (August 2, 2018)

Registration Open for FY 2019 CINR FOA Webinar (July 24, 2018)

Save the Date: FY 2019 CINR FOA Webinar (July 17, 2018)

Energy Department Invests \$64 Million in 29 States in Advanced Nuclear Technology (June 18, 2018)

Announcing the Versatile Test Reactor (VTR) Request for Applications (RFA) Updated (June 11, 2018)

[More Headlines...](#)



Q&A

Search commonly asked questions about DOE-NE funding opportunities.



Documents

Find documents and forms for applications and post-award reporting.



Funding Opportunities

Look for available DOE-NE funding opportunities announcements.



Funded Projects

Browse information on NEUP funded projects dating back to 2009.

FedConnect

The screenshot shows the FedConnect website in a browser. The address bar shows the URL <https://www.fedconnect.net/FedConnect/default.htm>. The main banner features the FedConnect logo and the text "The Government Acquisition & Grants Portal" over a background of the U.S. Capitol building and blue data stream graphics.

Do you want the US federal government to buy your products or services? Or, are you seeking grants or assistance funding?

FedConnect can help. Every day, FedConnect helps over 100,000 vendors and grant applicants, find, respond to and win opportunities for contracts, grants, and other types of assistance funding. To learn more about how FedConnect works, [click here to review the tutorial.](#)

Do you work for a federal agency?

FedConnect is the perfect complement to FedBizOpps and Grants.gov. FedConnect goes beyond the basic features of those systems to provide full lifecycle support including the ability to post opportunities, receive responses, deliver awards, and communicate throughout the pre-award, award, and post-award phases using FedConnect's secure 2-way messaging. [Click here to learn more.](#)

Sign In - Full Access →

Search Public Opportunities Only →

Register for Free Account →

Internet Explorer Compatibility Notice: If you are using Internet Explorer 9 (IE9) or above, Compatibility View must be on. Contact support with additional questions.

Need help?

- FedConnect: Ready, Set, Go! Tutorial
- **Updated!** Reverse Auction Vendor Tip Sheet
- Check Registration Status
- Password Reset
- Contact Your Organization's FedConnect Administrator
- Contact FedConnect Support

Want to learn more?

- Participating Government Agencies
- Accessibility Features

Watch as "Roz" tries to keep up with all the demands for contract data and compliance information

The video player shows a character named Roz, a woman with black hair, standing in front of a computer monitor. A large blue play button is overlaid on the video. The video is titled "Watch as 'Roz' tries to keep up with all the demands for contract data and compliance information".

© 2018 Compusearch Software Systems, Inc. All rights reserved. FedConnect is the registered trademark of Compusearch's FedConnect product.

[Terms of Service](#) [Privacy Policy](#) [About FedConnect](#)

What's New?



Forward Funding of Awards

- FY 2025: All awards at or below \$1.5 million must be fully funded when the original award is issued.
- This increases in the future:
 - FY 2026: \$1.75 million
 - FY 2027: \$2 million
 - FY 2028: \$2.5 million
- SC will obligate the full amount of funding into the payment system (ASAP)
- **Please account for this in SF-425s**

Updates to 2 CFR 200

- Final text published October 1
- SC has updated its NOFO (no longer FOA) format
- When indirect rates are negotiated, rolling impact of new definition of modified total direct cost

Research Security

- Everyone's favorite hot topic
- DOE has established an Office of Research, Technology, and Economic Security. Public-facing website including policy documents and guidance is in the works.
- Best advice:
 - Disclose, disclose, and disclose again when in doubt. Investigators should adjust to a default of disclosure
 - Make use of resources compiled at <https://www.dni.gov/index.php/safeguarding-science/research-security>
 - Encourage all travelers to think about security

Buy American Provisions

- From the Infrastructure Investment and Jobs Act
- Applies to all financial assistance with *public infrastructure*
- Construction and renovation at publicly-owned institutions may meet this definition
- Exercise caution: This is a statutory requirement

Award Budget Periods

SC is committed to distributing workloads (internally and externally) across as much of the calendar as is practical. Accordingly, awards made under this NOFO will generally be made with budget periods that end between December 1 and June 30. New awards will generally be made with a first budget period of more than 12 months. Renewal awards will be made with first budget periods that may be longer or shorter than 12 months. Applicants should prepare budgets with 12-month budget periods. Actual start dates and cycle dates will be negotiated if an application is recommended for award. Budget periods will generally not be made for less than 9 months or more than 18 months.

Synergistic Activities (Optional)

In addition to biographical sketches in the Common Format, each senior/key person may provide a one-page list of no more than five distinct examples of synergistic activities that demonstrate the individual's professional and scholarly activities that focus on the integration, transfer, and creation of knowledge as related to the application.

This appendix may not exceed a limit of the same number of pages as the number of senior/key personnel when printed using standard letter-size (8.5-inch x 11-inch) paper with 1-inch margins (top, bottom, left, and right).

Portfolio Analysis and Management System (PAMS)

<https://pamspublic.science.energy.gov/>

The screenshot shows the 'Existing User Login' page of the Portfolio Analysis and Management System. At the top left is the U.S. Department of Energy logo and 'Office of Science'. The page title is 'Portfolio Analysis And Management System'. Navigation links include 'Login' and 'Existing User'. The main content area features a login form with 'Username' and 'Password' fields, a 'Login' button, and a 'Forgot Password' link. To the right, there are sections for 'New User Registration' (with links for 'Search Solicitations' and 'Create New PAMS Account') and 'Other Links' (with links for 'Recommended Settings', 'Contact Us', and 'PAMS External User Guide'). A 'System Use Notification' section contains a disclaimer about government information systems and user consent. The footer includes links for 'Acceptable Use Policy', 'Viewers And Players', 'Contact Us', and 'PAMS External User Guide', along with product information: 'Product: PAMS | Platform #: 2.35.21 | Build #: 1.4.9 (W1) | Environment: Production'. Utility icons for font size, print, and refresh are visible in the bottom right corner.

New Wiki-Based Help Pages

The screenshot shows a web browser displaying the PAMS Help page on Confluence. The browser's address bar shows the URL: <https://pamsexternalhelp.science.energy.gov/display/UTL2/PAMS+Help>. The Confluence interface includes a top navigation bar with the Confluence logo, a search bar, and a 'Log in' button. On the left side, there is a sidebar with a 'PAMS Help (e)' header and a list of pages under the 'CHILD PAGES' section, including 'Home', 'PAMS Help', 'Introduction to PAMS', 'Registration', 'Manage Institutions', 'Create and Manage Submissions', 'Instructions to Reviewers Page', 'Revised Budget', 'How Do I Submit a Public Abst...', 'Create and Submit Award Mod...', 'Complete Commercialization S...', 'Complete Progress Report', 'Submit a Commercialization PL...', 'View Reviews', 'Requesting Additional Award A...', 'Approving Additional Award A...', 'Adding Products Outside of Re...', 'Optional Letter of Intent – Rec...', 'Countersign Letter of Intent', 'Countersign Preproposal', and 'Marking Proprietary Information'. The main content area is titled 'PAMS Help' and contains the following text:

The Department of Energy's (DOE) Office of Science (SC) Portfolio Analysis and Management System (PAMS) is a web-based system for taking many actions around SC's portfolio of awards in support of basic research in the physical sciences.

PAMS is not the only information system used to manage SC's awards. Depending on the nature of your institution and your functional needs, you may also need to:

- Submit applications via [Grants.gov](#)
- Retrieve award documents via [FedConnect.net](#)
- Access funds through ASAP or VIPERS

Users can view current and past Funding Opportunity Announcements and National Laboratory Announcements. Users may submit any required, requested, or optional preproposals or letters of intent (LOIs) in PAMS.

Proposals are submitted in [Grants.gov](#) by institutions of higher education and small businesses. DOE National Laboratories and other Federal agencies may be able to submit proposals directly in PAMS. Regardless of where a proposal was submitted, Principal Investigators (PIs) and Sponsored Research Office/Authorizing Official/Business Officials (SRO/AO/BOs) can access and manage their proposals and merit reviews in PAMS.

SC's community of peer reviewers uses PAMS to access proposals, write evaluations, and submit their reviews to the Government. After recommendations are made, the merit reviews become available in PAMS to the PI and/or SRO.

Once proposals are selected for funding and awards are finalized, the official award documents will be made available in a partner system ([FedConnect.net](#)). Once an award exists, SROs can submit award modification requests and PIs can submit their progress reports in PAMS.

This wiki serves as a collection of How to Guides to help you navigate through the PAMS system. Whether you are submitting an LOI, proposal, revised budget, or progress report, or attempting to manage users or withdraw a proposal, there are step-by-step guides to assist you.

The PAMS Helpdesk is also available from 9 am to 5:30 pm, Monday through Friday, at 855-818-1846 (toll-free), 301-903-9610, or sc.pams-helpdesk@science.doe.gov.

The PAMS Help page contains the following information and How To Guides:

- [Introduction to PAMS](#)
 - [Logging In](#)
 - [Navigation](#)
 - [System Conventions](#)
 - [Definition of Terms](#)
 - [PAMS Helpdesk Contact Information](#)
 - [Recommended Settings Guide](#)
- [Registration](#)
 - [Create/Update a User Account](#)
 - [Update User Profile](#)

What you can do in PAMS

- View proposals submitted into Grants.gov
- Search for Notices of Funding Opportunity
- Submit preproposals and letters of intent
- PIs can submit budgets to SROs
- SROs can submit revised budgets to DOE
- PIs can submit public abstracts to DOE
- DOE national labs can submit proposals to DOE
- Admin SROs can manage institution profiles & users
- Reviewers can review proposals – mail in or panel
- PI can view reviews after a *decision* is made on a proposal
 - Decisions are made by senior management
 - Requesting a revised budget on a proposal is not a decision

Working With the Office of Science

What Gets Submitted Where

Item	System	From Whom	To Whom
Application	Grants.gov	SRO	DOE
Revised Public Abstract	PAMS	PI	Program manager
Revised Budget	PAMS	PI	SRO
Revised Budget	PAMS	SRO	DOE
No-Cost Extension Request	PAMS	SRO	DOE
Change of PI Request	PAMS	SRO	DOE
PI Transfer Request	PAMS	SRO	DOE
Progress Report	PAMS	PI	DOE
Questions	Email, telephone preferred. PAMS, FedConnect not recommended	Anyone	DOE

Working With the Office of Science

Issues With Submissions

- Applications, once submitted, cannot be changed
 - Applications may be withdrawn in PAMS before they are released to reviewers
 - Applications may be withdrawn by written request after they are released to reviewers
 - SC has no policy limiting the number of resubmissions (within an FOA's deadline)
- No-Cost Extension Requests
 - Must be submitted before the award's end date
 - If the award has expired, contact the program manager—we can bring the award back
 - Revisions to requests cannot be made
- Progress reports, revised budgets, renewal proposal products
 - All permit revision
 - All preserve prior versions—a change may be made where needed and the item resubmitted

Working with the Office of Science

Budget Justifications

- All costs on a budget need to be justified
- “Based on prior experience with similar projects” *is acceptable!*
- Indicate estimates vs. quotes
- Use the negotiated fringe benefit rates—and explain deviations
- Explain the choice of using off-campus F&A rates
- While your budget will be incorporated by attachment into the award documents, the justification is not incorporated

Working with the Office of Science

Reminders and Deadlines

- PAMS will send some reminder emails when deadlines pass for *assigned* tasks
- There are no reminders for *unassigned* activities, like responding to an FOA or submitting a letter of intent
- Reminders are usually sent to the person who can complete the task
 - Progress reports are submitted by the PI
 - Revised budgets are submitted by the BO/AO/SRO
- Other interested parties are copied on the email
- Note that all *assigned* deadlines are soft: the task remains available even after the deadline
- There are no reminders relating to expiring awards
 - Not for submitting a renewal application
 - Not for submitting a no-cost extension request

Renewal Proposal Products

- A renewal application needs to describe what has been done during the current project period
- Progress reports contain a list of publications and other products
- PAMS was designed to collect the products from progress reports and append them to renewal applications—as a convenience to the PI community
 - Before we had a full set of progress reports in PAMS, the renewal proposal products required some manual data entry
 - Every award up for renewal now has at least one progress report in PAMS, so the proposal products list is pre-populated
- Renewal applications cannot be reviewed without their products list

Tips for Success

- Double-check UEI numbers, particularly for universities that use captive foundations
- Use one PDF file for the research narrative and *all* appendices
- Verify your math in the budget
 - New GDG forms will auto-calculate
 - Ensure use of the correct F&A rate
 - Ensure use of negotiated fringe rate
- For renewals and supplements: make sure the application is from the same institutional profile that currently holds the award. Please don't do any "back-door" transfers.

Revised Budgets

- Most awards issued by the Office of Science require the submission of at least one revised budget in the PAMS website
- Why?
 - Our award-writing software does not include the ability to generate an “approved” budget in the Notice of Award
 - Instead, your budget is attached to (and incorporated by reference in) the award documents
- Accuracy matters!
 - SC must make awards based on negotiated rates in effect when we make the award
 - This includes F&A rates *and* fringe benefit rates
- Subaward budgets in PAMS
 - Don’t be fooled by the statement that they are optional
 - The existence of a subaward is optional
 - If one exists, we need a budget

Reading Award Documents

ASSISTANCE AGREEMENT			
1. Award No. DE-FG02-nnnnnnnnnn	2. Modification No. 0011	3. Effective Date 03/01/2017	4. CFDA No. 81.049
5. Awarded To UNIVERSITY	3. Sponsoring Office Office of Science U.S. Department of Energy Germantown Building 1000 Independence Avenue, S.W. Washington DC 20585-1290		7. Period of Performance 05/01/2006 through 04/30/2018
8. Type of Agreement <input checked="" type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other	9. Authority Public Law 95-91, U.S. Department of Energy Organization Act		10. Purchase Request or Funding Document No. 188Cnnnnnn
11. Remittance Address UNIVERSITY	12. Total Amount Govt. Share: \$1,199,963.00 Cost Share : \$0.00 Total : \$1,199,963.00		13. Funds Obligated This action: \$0.00 Total : \$1,199,963.00
14. Principal Investigator Scientist	15. Program Manager Scientist2	16. Administrator Office of Science - Chicago U.S. Department of Energy Office of Acquisition & Assistance 3800 South Cass Avenue Argonne IL 60439	
17. Submit Payment Requests To	18. Paying Office OR for Chicago U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831		19. Submit Reports To See Federal Assistance Reporting Checklist and Instructions
20. Accounting and Appropriation Data See Schedule			
21. Research Title and/or Description of Project TITLE			
For the Recipient		For the United States of America	
22. Signature of Person Authorized to Sign		25. Signature of Grants/Agreements Officer Signature on File #file	
23. Name and Title	24. Date Signed	26. Name of Officer Contracting Officer	27. Date Signed 07/20/2017

This is the standard Assistance Agreement form used by DOE to make its grant awards. It contains basic information such as the award number, the recipient, the period of performance, the total amount (lifetime) of the award, the funds obligated by this instrument, and other important information.

You can access these documents in FedConnect. Your PIs will often complain that they cannot see them in PAMS. This is intentional.

The assistance agreement form itself continues for a few pages with important terms and conditions.

But there's more.

Award Documents, continued

- New and renewal awards will include a full package of special terms and conditions, usually as a Word file

SPECIAL TERMS AND CONDITIONS

FA-TC-0001-CH LEGAL AUTHORITY AND EFFECT (DECEMBER 2014)

- a. A DOE financial assistance award is valid only if it is in writing and is signed, either in writing or electronically, by a DOE Contracting Officer. This individual is reflected as the Grants/Agreements Officer on the Assistance Agreement.
- b. Recipients are free to accept or reject the award. Acceptance of the award is effected by:
 1. Performance;
 2. Recipient's submission of a request for payment;
 3. Recipient's withdrawal of funds obligated; or
 4. Recipient's signature on the Assistance Agreement.

FA-TC-0001A RESOLUTION OF CONFLICTING CONDITIONS

Any apparent inconsistency between Federal statutes and regulations and the terms and conditions contained in this award must be referred to the DOE Award Administrator for guidance.

FA-TC-0001B-CH PART 605 AWARD AGREEMENT CONTENTS (DECEMBER 2014)

This award/agreement consists of the Assistance Agreement cover page, plus the following:

- a. Special terms and conditions.
- b. Attachments:

Attachment No.	Title
1	Intellectual Property Provisions
2	Federal Assistance Reporting Checklist and Instructions
3	Budget Pages
4	Federal-Wide Research Terms and Conditions and DOE Agency Specific Requirements (DRAFT)

Award Documents, continued

- There will be additional documents in new and renewal (and supplemental) awards—and possibly in other types of modifications:
 - Intellectual Property provisions
 - Budget Pages
 - Agency Terms and Conditions (updated after the final revision to the standard research terms and conditions)
 - New awards only may include an Inspector General Hotline poster
 - Federal Assistance Reporting Checklist and Instructions

Reporting Checklist

- Useful document, instructing where to submit reports and how frequently
- Applies to your investigators (progress reports, publications) and to you (SF-425s, closeout reports)

A. MANAGEMENT REPORTING			
<input checked="" type="checkbox"/>	Research Performance Progress Report (RPPR) (RD&D Projects)	O; See Note 5. a.	https://pamspublic.science.energy.gov/webpamsepsexternal/login.aspx
<input type="checkbox"/>	Progress Report (Non-RD&D Projects)	–	https://pamspublic.science.energy.gov/webpamsepsexternal/login.aspx
<input checked="" type="checkbox"/>	Special Status Report	A	https://www.fedconnect.net/fedconnect/default.aspx and an E-mail to the DOE Program Manager listed in Block 15 of the Assistance Agreement. The E-mail address is listed on the Assistance Agreement Continuation Sheet.
B. SCIENTIFIC/TECHNICAL REPORTING			
(Dissemination of results is required for RD&D projects. Reports & other S&T publications/products must be submitted using the appropriate DOE Announcement Notice (AN) located at: https://www.osti.gov/elink)			
	<u>Product</u>	<u>Announcement Notice (AN)</u>	
<input checked="" type="checkbox"/>	Final Scientific/Technical Report	DOE AN 241.3	F http://www.osti.gov/elink-2413
<input checked="" type="checkbox"/>	Journal Article-Accepted Manuscript	DOE AN 241.3	O; See Note 5. b. http://www.osti.gov/elink-2413
<input checked="" type="checkbox"/>	Scientific/Technical Conference Paper/Presentation or Proceedings	DOE AN 241.3	O; See Note 5. c. http://www.osti.gov/elink-2413
<input type="checkbox"/>	Scientific/Technical Software & Manual	DOE AN 241.4	– http://www.osti.gov/estsc/241-4pre.jsp
<input type="checkbox"/>	Other STI (e.g., dissertation/thesis, see instructions)	DOE AN 241.3	– http://www.osti.gov/elink-2413
C. FINANCIAL REPORTING			
<input checked="" type="checkbox"/>	SF-425 Federal Financial Report	Q,F F See Note 5. d.	E-mail to FFR@science.doe.gov https://www.fedconnect.net/fedconnect/default.aspx
D. CLOSEOUT REPORTING			
<input checked="" type="checkbox"/>	Patent Certification	F	https://www.fedconnect.net/fedconnect/default.aspx
<input checked="" type="checkbox"/>	SF-428 & 428B Final Property Report	F	https://www.fedconnect.net/fedconnect/default.aspx
<input type="checkbox"/>	Other (see special instructions)	–	https://www.fedconnect.net/fedconnect/default.aspx

GONE Act and Closeout

- Grants Oversight and New Efficiency (GONE) Act of 2016
- Objective is that all awards be closed out two years after expiration
- Congressional reporting of un-closed out awards
- SC has threatened to put awardees on invoice payment to encourage timely closeout of awards
- Closeout reports include financial reports, invention / patent certification, and technical report
 - Reports have different recipients—please check your reporting instructions and checklist!
 - Please bear with us: different recipients using different information systems means that sometimes, one office doesn't know that another office received a required report

Prior Approval Requests

2 CFR 200.1 Definitions

Prior approval means the written approval obtained in advance by an authorized official of a Federal agency or pass-through entity of certain costs or programmatic decisions.

Prior Approval Requests

DOE has a 5-year cooperative agreement with Dynamic Research Co. After three years into the project, the Principal Investigator (PI) leaves the company for a new opportunity with Synergy Incorporated.

Is written prior approval required to replace the PI?



Answer: Yes.

2 CFR 200.308(f)(2) - Change in a key person specified in the application or Federal award.

Prior Approval Requests

The University of Everywhere is nearing the completion of its 3-year grant with DOE. The PI stated some additional testing must be done and the work will be contracted out. The DOE Program Manager had no objections – said it was appropriate effort. University of Everywhere proceeded with the work.



Was prior approval required and obtained?

Answer: Yes required, but not obtained. Only the Contracting Officer can approve this request.

2 CFR 200.308(f)(6) - Subawarding, transferring or contracting out of any work under a Federal award, including fixed amount subawards as described in 200.333. This provision does not apply to the acquisition of supplies, material, equipment or general support services.

Prior Approval Requests

The National Research Association submitted a grant application to DOE. It was selected for award but the DOE Office of Financial Assistance was a little behind in making the award by the July 15, 2024 effective date.

Does the recipient need approval to incur pre-award costs within 60 days before the new award is made?



Answer: No (waived)

2 CFR 200.308(g)(1) - Incur project costs 90 calendar days before the Federal awarding agency makes the Federal award.

Prior Approval Requests



Global University has been progressing satisfactorily with their DOE research project. The Sponsored Research Office submitted a request to the Contract Specialist seeking approval to purchase a special piece of equipment not previously included in the approved budget.

Is written prior approval required?

Answer: Yes, through September 30, 2024. No, effective October 1, 2024.

2 CFR 200.313(c)(1) - Encumber equipment acquired with Federal funds.

Prior Approval Matrix

Research Terms and Conditions Appendix A

[Prior Approval Matrix](#) November 12, 2020

Prior Approval Matrix Update (effective 10/1/24)

2 CFR 200 was updated to **remove** the following from the list of items requiring prior written approval:

- 200.201 Use of grant agreements
- 200.311 Real property
- 200.313 Equipment
- 200.413 Direct costs
- 200.438 Entertainment and prizes
- 200.454 Memberships, subscriptions and professional activity costs
- 200.456 Participant support costs
- 200.467 Selling and marketing costs
- 200.470 Taxes (including Value Added Tax)

Prior Approval Requests (Takeaways)

- PIs cannot request – and program managers cannot approve – any prior approval requests.
- Four requests may be submitted in PAMS
 - No Cost Extension
 - PI Transfer to New Institution (SF-425 and termination)
 - Change of PI
 - Change of Senior/Key Personnel (new biosketches and current and pending support)
- Other requests need to be in writing
 - **From** the Sponsored Research Office
 - **To** the Award Administrator and Contracting Officer
 - **CC** the program manager

THANK YOU!

