



U.S. DEPARTMENT OF  
**ENERGY**

**Nuclear Energy**

**FY 2018 Consolidated Innovative Nuclear Research  
Funding Opportunity Announcement  
Number DE-FOA-0001772**

*August 8, 2017*



# Outline

## Nuclear Energy

- **FY 2017 Outcomes**
- FOA Overview
- Policy Updates and Reminders
- Review Process, Tools, and Submissions





# FY 2017 Summary Outcome

## Nuclear Energy

- In FY 2017, DOE awarded nearly \$67 million in nuclear energy research, facility access, crosscutting technology development, and infrastructure awards in 28 states. In total, 86 projects were selected to receive funding that will help advance innovative nuclear technologies.



- These awards provide funding for nuclear energy-related research through the Nuclear Energy University Program, Nuclear Science User Facilities, and Nuclear Energy Enabling Technology programs. a number of nuclear technology developers will receive access to unique research capabilities and other assistance consistent with the goals and objectives of the Gateway for Accelerated Innovation in Nuclear (GAIN) initiative.



# FY17 NEUP Outcomes

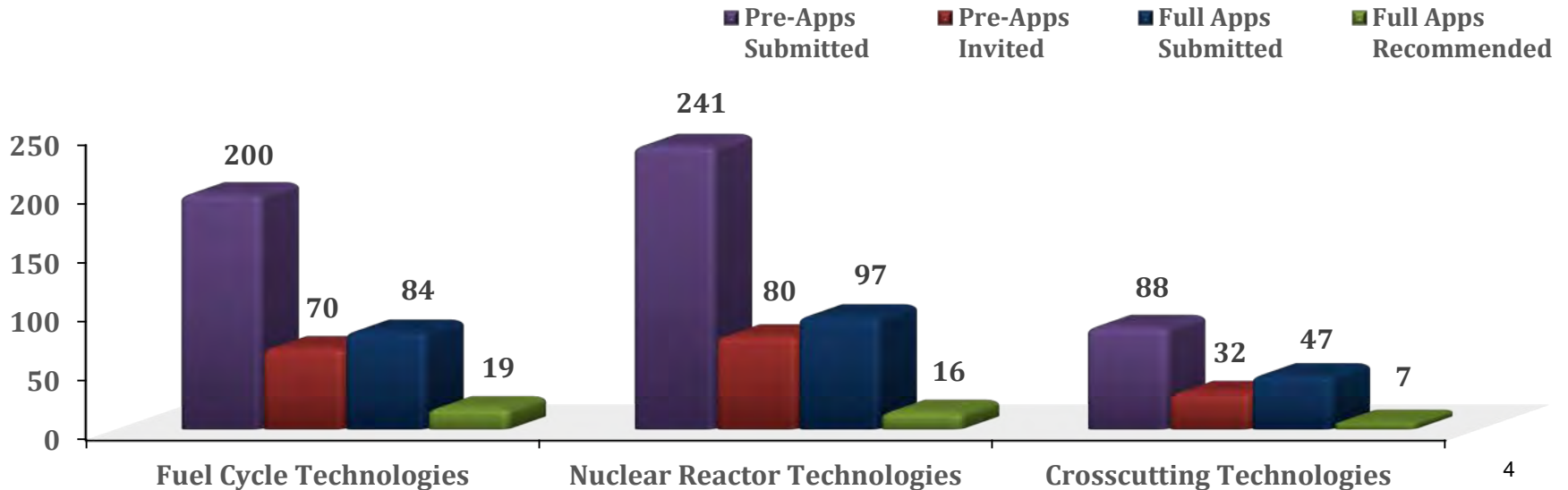
## Nuclear Energy

- **529** pre-applications received
- **182** applications invited
- **228** full applications received
  - 3 invited were not submitted
  - 2 invited were dismissed
  - **49** uninvited submitted
    - 2 uninvited were dismissed
    - 27 fully peer-reviewed

- **42** applications recommended
  - Includes **5** uninvited

### IRP's

- ✓ 15 applications received
- ✓ 3 applications recommended



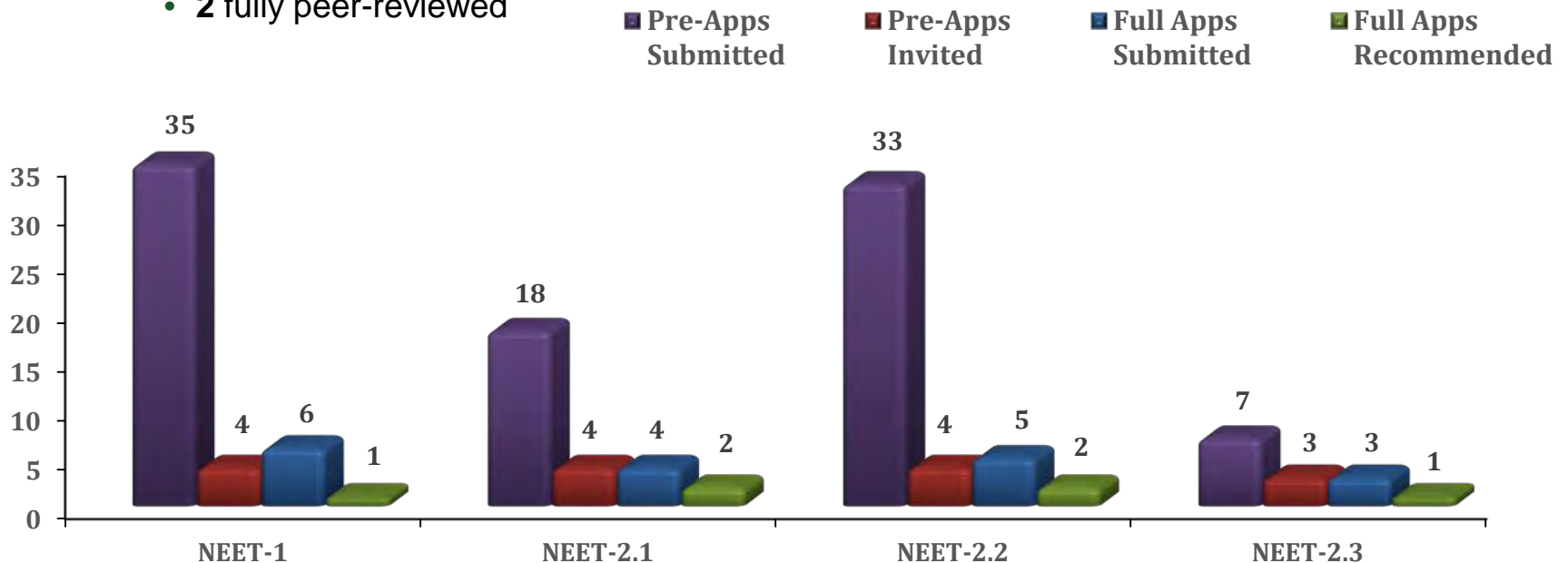


# FY17 NEET Outcomes

## Nuclear Energy

- **93** received pre-applications
- **15** invited applications
- **18** full applications received
  - 1 invited was not submitted
  - 4 uninvited submitted
    - 2 fully peer-reviewed

- **6** recommended applications
  - Includes 1 uninvited

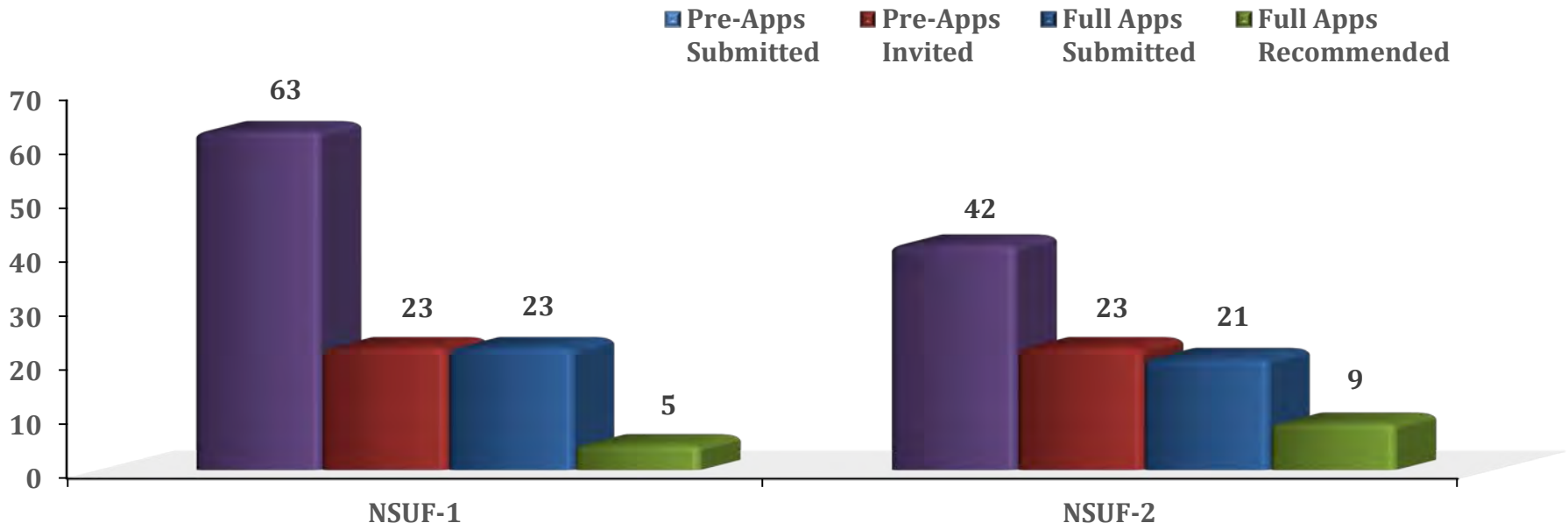




# FY17 NSUF Outcomes

## Nuclear Energy

- **105** received pre-applications
- **46** invited applications
- **44** full applications received
  - **2** invited were not submitted
- **14** recommended applications





# FY18 Important Due Dates

- **FOA Release:** 2017
- **NSUF LOI's:** Aug 31, 2017
- **R&D/NSUF Pre-applications:** Sept 20, 2017 (IRPs excluded)
- **NSUF Preliminary SOW:** Nov. 17, 2017
- **Full application invitations:** Dec 2017
- **Full IRP applications:** Jan 17, 2018
- **NSUF Final SOW:** Jan 22, 2018
- **Full R&D applications:** Feb 20, 2018





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- **FOA Overview**
- **Policy Updates and Reminders**
- **Review Process, Tools, and Submissions**

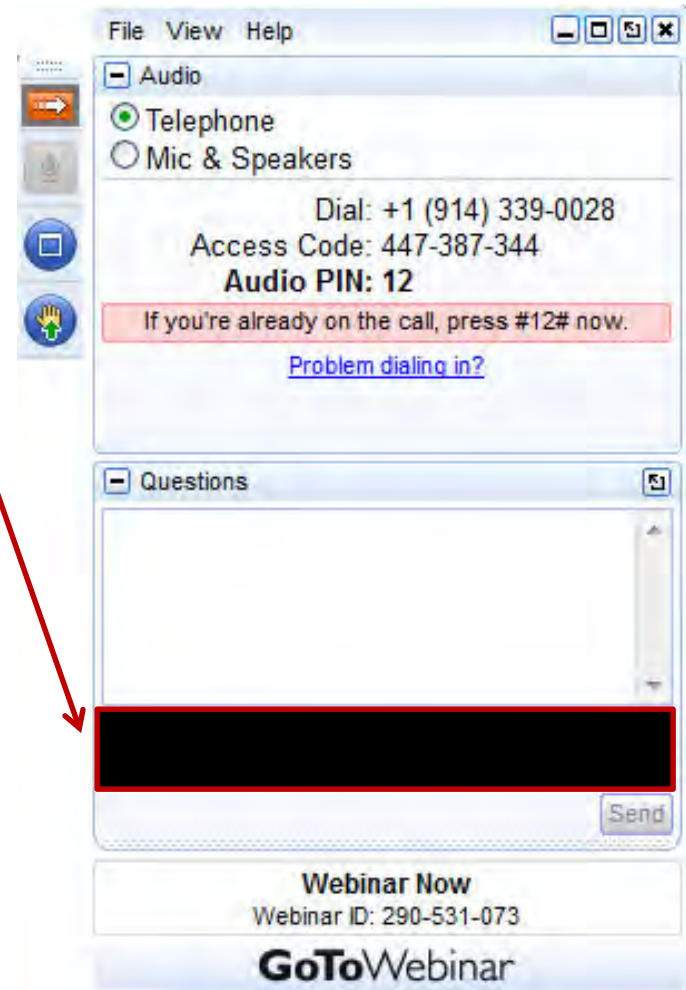






# How to Ask Questions During This Webinar

- Submit questions using the GoToWebinar software by typing in the Webinar ID field.
- If your question does not get answered during the allotted time, questions will be answered later and posted on [www.NEUP.gov](http://www.NEUP.gov).
- Specific questions on individual eligibility or workscope detail should be addressed offline.





### ■ Funding Mechanism

- Universities: Cooperative Agreements issued by DOE
- National laboratories: Work Authorizations managed by DOE
- Industry: Cooperative Agreements issued by DOE
- Nuclear Science User Facilities (NSUF) Access: NSUF User Agreement

### ■ Collaborative Opportunity

- NSUF (requires signed user agreement)
  - *Applications for CINR R&D support and NSUF access*
  - *Applications for NSUF access only*

### ■ Eligibility Requirements

- Ensure R&D is delivered in necessary timelines to support programmatic missions
- Encourage diverse participation
- Based on performance (no-cost extensions) and project load

### ■ Official FOA (DE-FOA-0001772) at <http://www.grants.gov>

### ■ Apply through <http://www.NEUP.gov>



### University-led R&D (NEUP and NSUF worksopes):

- Appendix A
  - Program Supporting
  - Mission Supporting

### University-, National Laboratory-, or Industry-led R&D (NEET, NSUF worksopes):

- Appendix B
  - Program Supporting
  - **Note:** Industry may only lead on applications submitted to NSUF worksopes.

### University-led, Integrated Research Projects:

- Appendix C
  - Program Directed



### ■ Program Supporting

- Supports NE programs
- Defined by, and focused on, the statement of objectives developed by responsible programs

**PS: focused more directly on programmatic needs**

### ■ Mission Supporting

- Must support NE mission
- Includes research in fields or disciplines of nuclear science and engineering that are relevant to NE's mission but may not fully align with the specific initiatives and programs as described in Program Supporting objectives

**MS: creative, innovative, and transformative**

### ■ Program Directed

- Directed by NE programs
- Significant projects within specific research areas
- Intended to develop a capability to address specific needs, problems, or capability gaps identified and defined by DOE

**PD: solutions to near-term significant needs**

# University-led R&D: Appendix A

## ■ Award Size

- Program Supporting: up to \$800,000
- Mission Supporting: up to \$400,000

## ■ Period of Performance

- Up to three (3) years; up to seven (7) if irradiation and PIE are proposed in NSUF worksopes

## ■ Eligibility

- Only universities are eligible to lead
- Universities, National Laboratories, and industry are eligible to collaborate

## ■ Estimated Funding Level

- Approximately \$40 million, totaling approximately 50 awards

# University-, National Laboratory-, or Industry-led: Appendix B

## ■ Award Size

- Program Supporting NEET: up to \$1,000,000
- NSUF Worksopes: \$500,000 for R&D request, up to \$4 M for irradiation/PIE, \$1.5 M for irradiation, or \$750,000 for beamline or PIE access request

## ■ Period of Performance

- Up to three (3) years; up to seven (7) if irradiation and PIE are proposed in NSUF worksopes

## ■ Eligibility

- Universities, National Laboratories, and industry (industry can only lead on NSUF-2 worksopes) are eligible to lead or collaborate

## ■ Estimated number of awards

- Approximately \$15 million, totaling approximately 22 awards



# University-led IRP: Appendix C

## ■ Award Size and Period of Performance

- IRP-RC-1: Development on Advanced Instrumentation Which Permits the Collection of Real Time Data of Fuels and Materials Properties During Irradiation in a Fast Spectrum Test Reactor
- \$3.5 M, 3 Years

## ■ Eligibility

- Only universities are eligible to lead
- Universities, National Laboratories, and industry are eligible to collaborate
- International collaborations are encouraged



# Lead Institution Eligibility Summary

## ■ **Appendix A:** U.S. Universities Only

- Applications may request R&D support
- In specific workscopes applications may request CINR sponsored R&D with NSUF sponsored access

## ■ **Appendix B:** U.S. Universities, National Laboratories, Industry (industry can only lead on NSUF-2 workscopes)

- Applications may request R&D support
- Applications may request CINR sponsored R&D with NSUF sponsored access
- *- OR -*
- Applications may request NSUF sponsored access only

## ■ **Appendix C:** U.S. Universities Only

- Applications may request R&D support



# Technical Narrative Application Page Limits

## ■ Appendix A and B

- Two page Letter of Intent (LOI) for applications requesting NSUF access
- Up to three page pre-application
- Up to 10 page full-application for applications requesting R&D support
- Up to 15 page full application for applications requesting R&D support and NSUF access

## ■ Appendix C

- Up to 50 page application for IRPs
  - *IRP-RC-1: Development on Advanced Instrumentation Which Permits the Collection of Real Time Data of Fuels and Materials Properties During Irradiation in a Fast Spectrum Test Reactor.*



- Collaborations with universities, industry, National Laboratories, and foreign institutions are strongly encouraged
- To enhance and diversify DOE's research portfolio, additional consideration is given for collaborations with minority-serving institutions (MSIs), underrepresented groups (URGs), industry, and foreign institutions
- For university-led applications (except for worksopes under Appendix B), non-university collaborators in composite can account for no more than 20% of the total funds provided by the government
- Funding is for U.S. institutions only
  - International organizations are encouraged to collaborate as long as they are neither a denied party nor a party requiring an export license
  - U.S. funding will not be provided to international collaborators

# Policy Updates and Reminders

# Policy Updates and Reminders

- Industry is eligible to lead on NSUF-2 worksopes only
- NSUF applicants are required to affirm their ability to accept the NSUF User Agreement on submission of LOI, pre-app, and full app.
- For NSUF pre-applications a Summary of Readiness is required
- NSUF SOW's now uploaded to NEUP.gov (prelim 11/17/17, final 1/22/18)
- NSUF applications must include a list of publications that resulted from previous NSUF supported projects (place in Benefits of Collaboration)



# Policy Updates and Reminders Cont'd

- PIs and collaborators are considered final when the pre-application is submitted (extenuating circumstances will be addressed as needed)
  - A collaborator is an individual who makes a defined, material contribution that is critical to the success of the project **(individuals not meeting these criteria should not be listed as collaborators)**
- PI is responsible for selection of appropriate workscope
  - Full applications must be competed in the workscope to which the pre-applications were submitted
  - Applications may only be competed in a single workscope area
- For review purposes, conflict of interest restrictions, if necessary, will be attributed to the individual, not the institution
- Applicants are responsible for not exceeding submission limits



# Policy Updates and Reminders Cont'd

- Materials required by the FOA must be submitted by the published deadlines. Material received after these dates will not be considered
- Uninvited applications may be submitted as full applications per the stipulations of the FOA
  - Uninvited applications associated with NSUF submissions may not be submitted as full applications due to the expense associated with feasibility assessments
- U.S. funding may not be provided to international institutions
- For university-led applications (except for worksopes under Appendix B), non-university collaborators in composite can have no more than 20% of the total funds provided by the government



# Policy Updates and Reminders Cont'd

- Pre-Award Costs: Recipients may charge allowable costs to an award 90 days immediately preceding the effective award date. Recipients must obtain the prior approval of the DOE Contracting Officer for any pre-award costs greater than 90 days
- ***DO NOT LOCK CELLS IN BUDGET SPREADSHEETS.*** Applications with locked cells may be disregarded without further review



# Project or PI Transfer

## Nuclear Energy

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- Applications submitted to this FOA will be awarded to the applicant institution listed and will not be transferred pre-award to another if a lead PI changes institutions.
- PIs that are moving from one institution to another during and/or after the CINR review process are subject to the DOE's PI Move/Change Policy which is explained at [www.NEUP.gov](http://www.NEUP.gov).
- Awards in this FOA are made to the applying institution and will remain at that institution for the entirety of the project.
- Any additional changes to partners/collaborators will need to be approved by the DOE contracting officer.



# Submittal Guidelines

## Nuclear Energy

### ■ Ineligible to submit to this FOA as a PI:

- Lead PIs on an active IRP
- University PIs with three or more R&D projects that will be active after December 31, 2018
- PIs with a No Cost Extension (NCE) on any DOE-NE funded project that will be active beyond December 31, 2018

### ■ Pre-application submittal limits:

- University PIs can be included on no more than six pre-applications total, with no more than three of those submissions as the PI.

### ■ Full application submittal limit:

- A university PI may have no more than one IRP or three active R&D projects at any time and may not submit more full applications than allowed should the applications be selected for funding. *NSUF access only applications are excluded, other NSUF applications are evaluated case by case.*



# Submittal Guidelines (Cont'd)

## ■ **NEET-CTD funded research:**

- Universities, National Laboratories, and industry are limited to three pre-applications per institution per workscope area
  - *For university PIs, these submissions count toward the pre-application limits*

## ■ **IRP applications:**

- An applicant is ineligible to submit as the PI if (s)he is designated as PI for more than one currently funded DOE-NE research project that will still be active beyond December 31, 2018
- PIs may not submit a R&D application and an IRP application in the same year

## ■ **NSUF projects that request R&D support will be evaluated on a case-by-case basis**

## ■ **NSUF access only applications are exempt from eligibility restrictions**

# Uninvited Pre-Applications

- With the exception of NSUF applications, pre-applications that are not invited may still be submitted as full applications
  
- Uninvited pre-applications that are received as full applications must meet the following criteria in a re-review to be considered for a full technical review:
  - Relevancy: average score of at least High Relevance
  - Program Priority: average score of at least Moderate Program Priority



# Weighting of Scores

- Technical merit and relevancy are weighted according to program involvement:
  - Mission Supporting                      80% Technical; 20% Relevancy
  - Program Supporting                      65% Technical; 35% Relevancy
  - Program Directed                      50% Technical; 50% Relevancy
  - NSUF Access Only:                      65% Technical; 35% Relevancy
  
- The FOA details criteria for all sections and application types.
  
- Additional relevancy consideration is given for effective partnerships including MSI, URG, industry, and foreign collaborations.
  
- Program priority is a separate criteria that is scored by relevancy reviewers.

# Semi Blind Reviews

- CINR policy is to review PS and MS applications in a semi blind process. Technical narrative is evaluated without the knowledge of individuals or facilities to assess the merit of the idea. **Do not include the following information in the narrative:**
  - Cost and pricing information
  - Identification, by individual name or name of institution, of any teaming partner or lead institution (examples of acceptable ways of referring to partners are posted on the NEUP website).
  - Official name or title of facilities used to execute scope. Only describe the facility by function and/or technical attributes such as an accelerator, a test reactor, etc.

**Note:** For applications requesting NSUF access, the NSUF facilities may be named.

# Cost Sharing

- For applications led by universities, cost sharing is encouraged, but not required.
- Cost sharing is not an evaluated criteria.



# Review Process, Tools, and Submissions

# Review Processes and Criteria

## ■ Review criteria and processes used for PS, MS, and PD evaluation is consistent with traditional peer review

- PS and MS applications are reviewed in a semi-blind process that includes pre-applications

- *Pre-applications: Two relevancy, one peer*

- Results in Invited and Not Invited status

- *Full applications (typical): two relevancy, three peer*

- PD applications are reviewed individually by a common set of reviewers who are then convened into a panel for final scoring

- *A minimum of two relevancy, three peer*







# FOA At-A-Glance

## Nuclear Energy

		Applicable Workscope Appendix	Estimated Available Budget	Maximum Award Size	Project Duration	Cost Share	Collaboration
<b>University-led NEUP Projects</b>	Program Supporting	Appendix A	\$40,000,000	\$800,000	Up to 3 years	Permitted but not required	University, National Laboratory, industry, and foreign collaborations are encouraged but no U.S. funding can go to entities that are not incorporated in the U.S
	Mission Supporting			\$400,000			
<b>University-, National Laboratory-, or Industry (NSUF-2 Only)-led NEET CTD Projects</b>	Program Supporting	Appendix B	\$7,000,000	\$1,000,000	Up to 3 years		
<b>NSUF Projects</b>	Program Supporting	Appendix B	R&D: \$3,000,000  NSUF: \$8,000,000	Refer to maximum award size of the project funding and NSUF funding.	Up to 7 years for Irradiation and PIE. Up to 3 years for PIE only or Irradiation Only		
<b>University-led Integrated Research Projects – NEUP</b>	Program Directed	Appendix C	\$3,500,000	\$3,500,000	Up to 3 years		



# Required Documents & Forms

Document	Format	Required From
Conflict-of-Interest	Checkbox	Affirmed by lead applicant for all participants
SF-424 R&R	Form	Lead applicant
Research and Related Other Project Information	Form	Lead applicant
Project Summary / Abstract	PDF	Lead applicant
Project Narrative	PDF	Lead applicant
Vitae – Technical Expertise and Qualifications (2 pages)	PDF	All leads and collaborators
Benefits of Collaboration (4 pages)	PDF	Lead applicant
Capabilities (2 pages)	PDF	Lead applicant
SF-424 Research and Related Lead Budget (total Fed + Non-Fed)	Form	Lead applicant (except NSUF-2)
SF-424 Subaward Budget (total Fed + Non-Fed), if applicable	Form	University / Industry Collaborators (except NSUF-2)
Budget for DOE National Lab Contractor or FFRDC, if applicable	PDF	National Lab Leads and Collaborators (except NSUF-2)
Budget Justification	PDF	University & Industry Leads and Coll. (except NSUF-2)
Current and Pending Support	PDF	All University and Industrial Applicants
Coordination and Management Plan	PDF	Lead Applicant
Authorization for DOE/NNSA FFRDC's	PDF	National Laboratories (include non funded collaborators)
Project/Performance Site Location	PDF	Submitted for all sites performing work
SF-LLL Lobbying Activities	Form	Submitted for all sites performing work
Environmental Checklist	Form	Submitted for all sites performing work
Certifications and Assurances	Form	University & Industry Leads (except NSUF-2)

# Tools for Understanding the FOA

## ■ Eligibility Workflow

- Detailed eligibility restrictions can be found at [https://neup.inl.gov/SiteAssets/FY2018\\_Documents/FY18\\_CINR\\_FOA\\_Eligibility\\_Flowchart.pdf](https://neup.inl.gov/SiteAssets/FY2018_Documents/FY18_CINR_FOA_Eligibility_Flowchart.pdf)

## ■ R&D Federal/Technical Points of Contact

- [https://neup.inl.gov/SitePages/FY18\\_RD\\_Technical\\_Program\\_Contacts.aspx](https://neup.inl.gov/SitePages/FY18_RD_Technical_Program_Contacts.aspx)

## ■ IRP Federal/Technical Points of Contact

- [https://neup.inl.gov/sitepages/FY18\\_IRP\\_Technical\\_Program\\_Contacts.aspx](https://neup.inl.gov/sitepages/FY18_IRP_Technical_Program_Contacts.aspx)



# Contact Information



## ■ Federal/Technical Points of Contact – Technical Questions

- List of TPOCs found at [www.NEUP.gov](http://www.NEUP.gov)

## ■ DOE-ID – Procurement Questions

- JoAnne Hanners
- [hannerj@id.doe.gov](mailto:hannerj@id.doe.gov)

## ■ NE Integration Office – General Application Submittal Questions

- (208) 526-1602 / (208) 526-8178
- [neup@inl.gov](mailto:neup@inl.gov)



# FY18 Important Due Dates

- **FOA Release:** 2017
- **NSUF LOI's:** Aug 31, 2017
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[www.neup.gov](http://www.neup.gov)



# Additional Slides



## Nuclear Energy

### ■ NEUP

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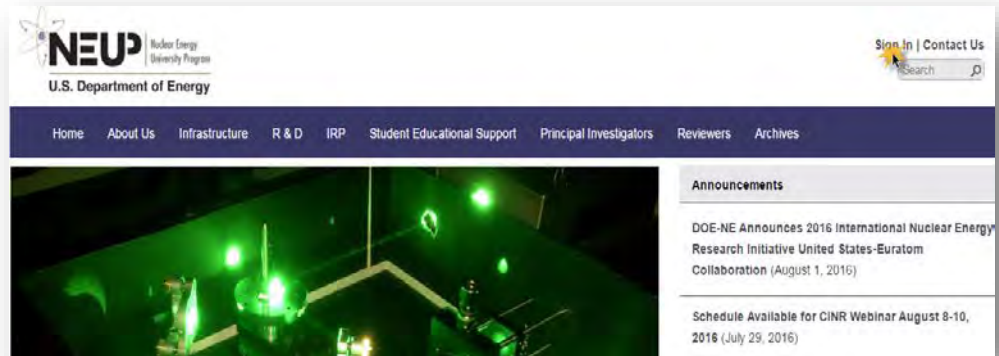
### ■ IRP

- ✓ 15 applications received
- ✓ 3 applications recommended



# How to Submit an Application

Visit [www.NEUP.gov](http://www.NEUP.gov) and click  
“Sign In.”



Log in using your user name  
and password. New applicants  
will need to click Create a New  
Account.

**Log In**

User Name:

Password:

Remember me next time.

[Create New Account](#)  
[Forgot Password?](#)  
[Forgot UserName?](#)

**Insert User Name and Password here**

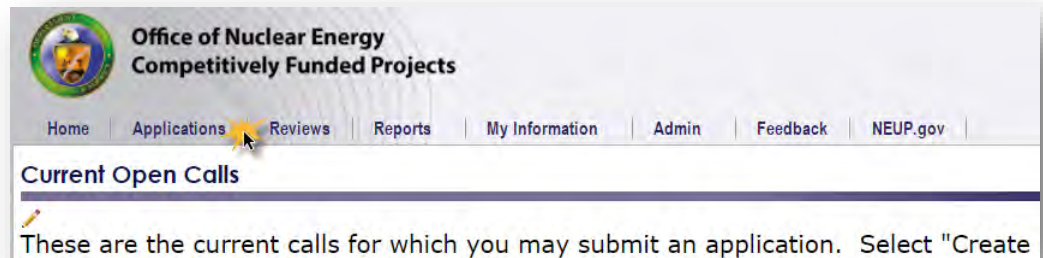
**To Create new account or retrieve Log In credentials, click the appropriate link**



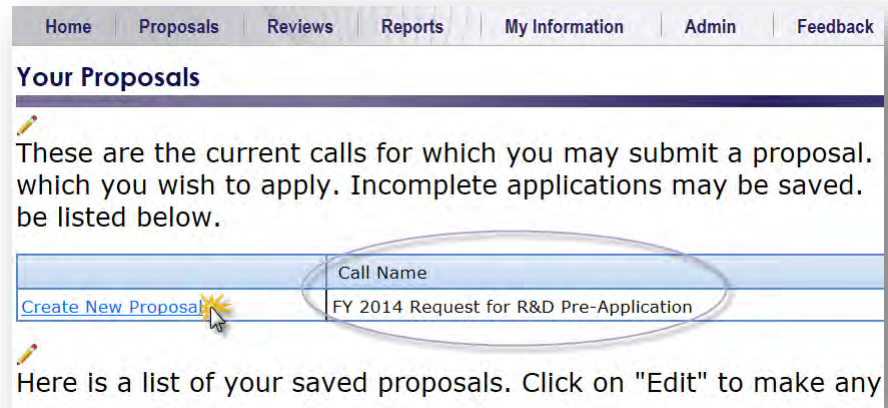


# How to Submit an Application (Continued)

To create an application, click on the Applications tab.



This page is where past applications are still visible, and any new calls will be available. FY 2018 solicitation options are found here. Simply click on the appropriate Create New Application link to begin the application process.



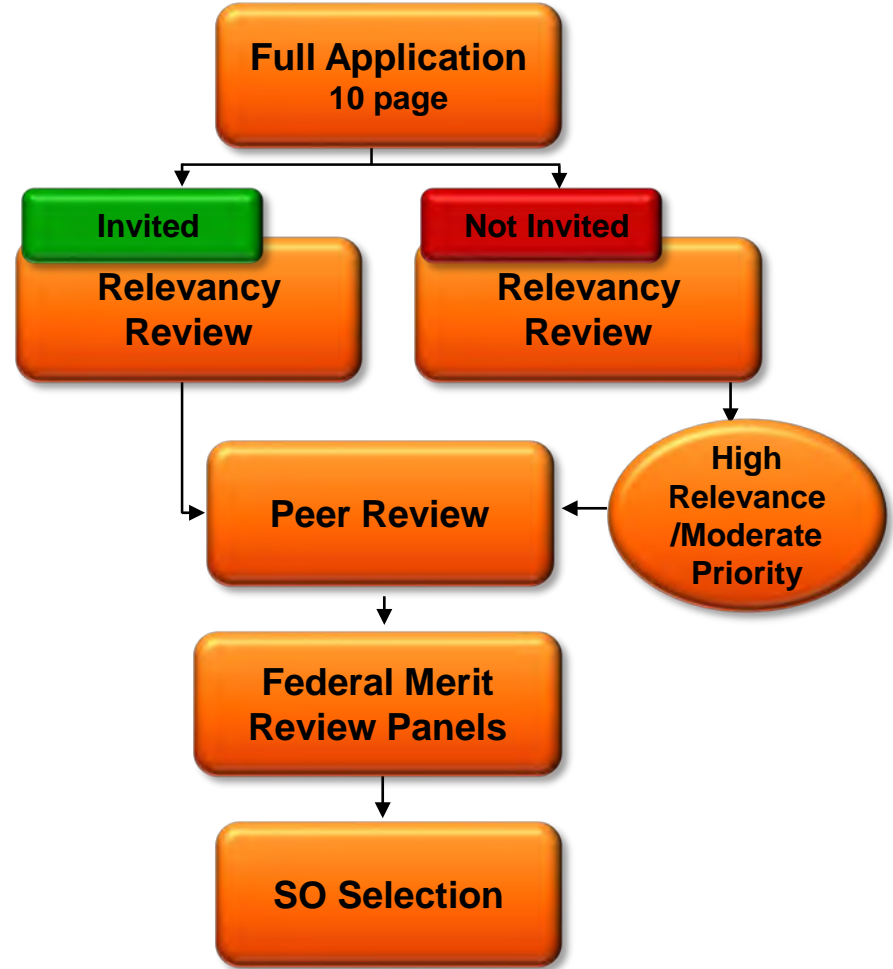
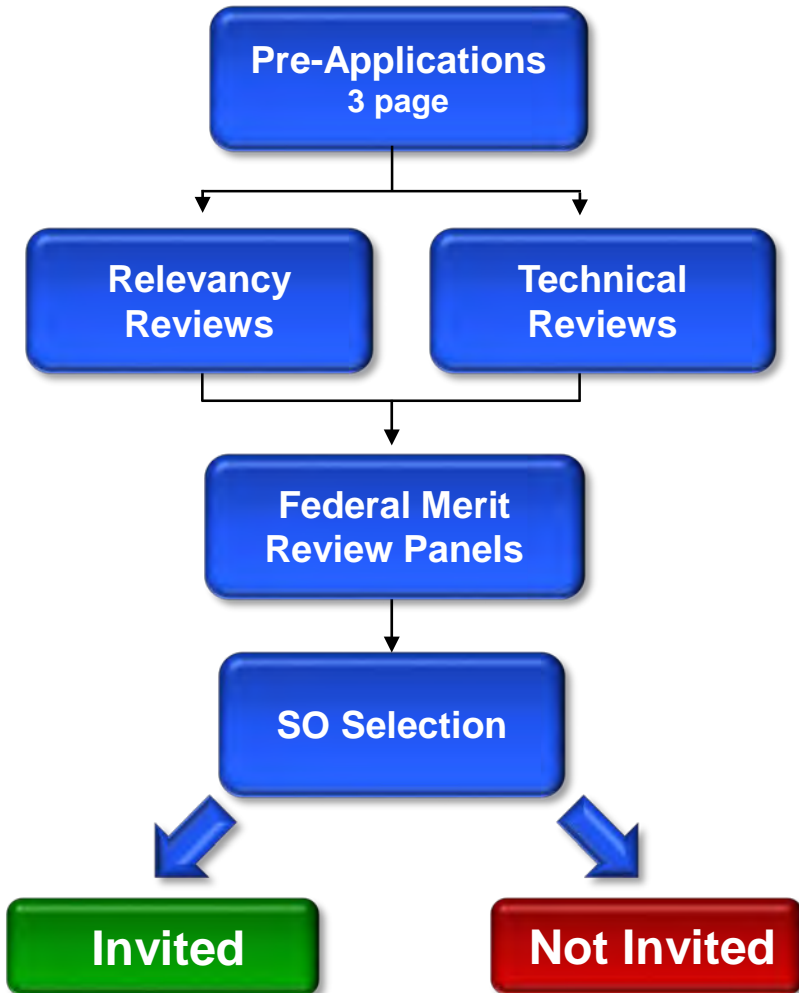
# NE Review Process Overview for Program and Mission Supporting Applications

# PS/MS Review Processes

- **PS and MS pre- and full applications are reviewed by individual reviewers**
  - Two relevancy (Federal Program Manager/Technical Integration Office representative)
  - One technical peer for pre-applications
  - Up to three technical peers for full applications
- **Individual scores are collected and considered**
- **Inconsistent reviews are reconciled**
- **Federal merit review panels review results and recommend a list of projects for Selection Official consideration**



# PS/MS Review Processes (Continued)





# Pre-applications: Relevancy

## ■ Five categories:

**High Relevancy:** The project is fully supportive of, and has significant, easily recognized and demonstrable ties to the NE mission and the relevant workscope area. The project builds on synergies with ongoing direct funded, or competitively funded projects *or* meets a critical mission need. The project focuses on critical knowledge gaps where limited work is currently being performed.

**Moderate Relevancy:** The project is supportive of, and has significant, recognized and demonstrable ties to the NE mission and the relevant workscope area. The project recognizes synergies with ongoing direct funded, or competitively funded projects and identifies areas for improvement to current, or recently completed, work. The project has ties to knowledge gaps where limited work is currently being performed.

**Some Relevancy:** The project is somewhat supportive, and has some ties to the NE mission and the relevant workscope area. The project recognizes ongoing direct funded, or competitively funded projects and identifies limited improvements to current work. The project addresses some knowledge gaps, although there is a moderate amount of work currently being performed in the area.

**Low Relevancy:** The project is minimally supportive of, and has limited ties to the NE mission and the relevant workscope area. The project does not recognize ongoing work and does not identify areas for improvement to current, or recently completed, work. Substantial work is currently being performed in the area to address knowledge gaps.

**No Relevancy:** The project is not supportive of the NE mission or the relevant workscope area.



# Pre-applications: Program Priority

- Application relevancy scores will be weighted in consideration of program priority which is established and influenced by factors such as balance of portfolio, funding constraints, and anticipated program needs.
- **Program priority categories:**
  - **High Program Priority:** The project is critical to program objectives and/or the workscope area and will provide unique results that can be effectively integrated with other currently funded work (direct and/or competitively funded).
  - **Moderate Program Priority:** The project is important to program objectives and/or the workscope area and will provide complementary results to currently funded work (direct and/or competitively funded).
  - **Low Program Priority:** The project is somewhat important to program objectives and/or the workscope area but results may be duplicative of currently funded work (direct and/or competitively funded) or unnecessary for current program objectives.
  - **No Program Priority:** The project is not important to program objectives and/or the workscope area. The project may also be duplicative of ongoing R&D efforts.

# Pre-applications: Merit

## ■ Five categories:

**High Merit:** The project unquestionably advances the technical state of knowledge and understanding of the NE mission or relevant workscope area, and is creative and based largely on original concepts. The scope can be executed fully in the facilities available

**Moderate Merit:** The project advances the technical state of knowledge and understanding of the NE mission or relevant workscope area, and is based on some established concepts, although several creative and original concepts are presented. The scope may be executed fully in the facilities available.

**Some Merit:** The project incrementally advances the technical state of knowledge and understanding of the NE mission or relevant workscope area, and is based predominately on established concepts, with some creative, original concepts. The scope may be difficult to execute fully in the facilities available.

**Low Merit:** The project recognizes the technical state of knowledge and understanding of the NE mission or relevant workscope area, and is only marginally creative and contains few original concepts. The scope will require resources not named in the project or will require additional facilities or resources to execute.

**No Merit:** The project does not advance or recognize the technical state of knowledge and understanding of the NE mission or relevant workscope area, and is not creative or original. The scope cannot be executed fully in the facilities available.

# Full Application Review

- **Weightings between relevancy and technical merit are the same**
  - Program Supporting: 35% Relevancy, 65% Technical
  - Mission Supporting: 20% Relevancy, 80% Technical
- **Relevancy review criteria remain the same**
- **Technical scoring guidelines and criteria are given for each area with a collection of comments:**
  - Scientific and Technical Merit (Blind) – 35%
  - Technical Quality of the Proposed R&D Project (Blind) – 35%
  - Team Capabilities, Qualifications, and Experience – 30%



# MSI, URG, and Partnerships: Criteria and Contribution

- The degree to which MSIs, international and/or industry partners, and/or URGs, if any, contribute to the applicant's ability to support the relevant program element or overall NE mission
  - The presence of a MSI is attributed at the institution level and valued by a listing maintained by the Department of Education
  - A URG is attributed at the individual level and based on a voluntary self-identification
- Evaluated as part of relevancy
- Not required to achieve the highest relevancy score

# NE Review Process Overview for Program Directed Applications

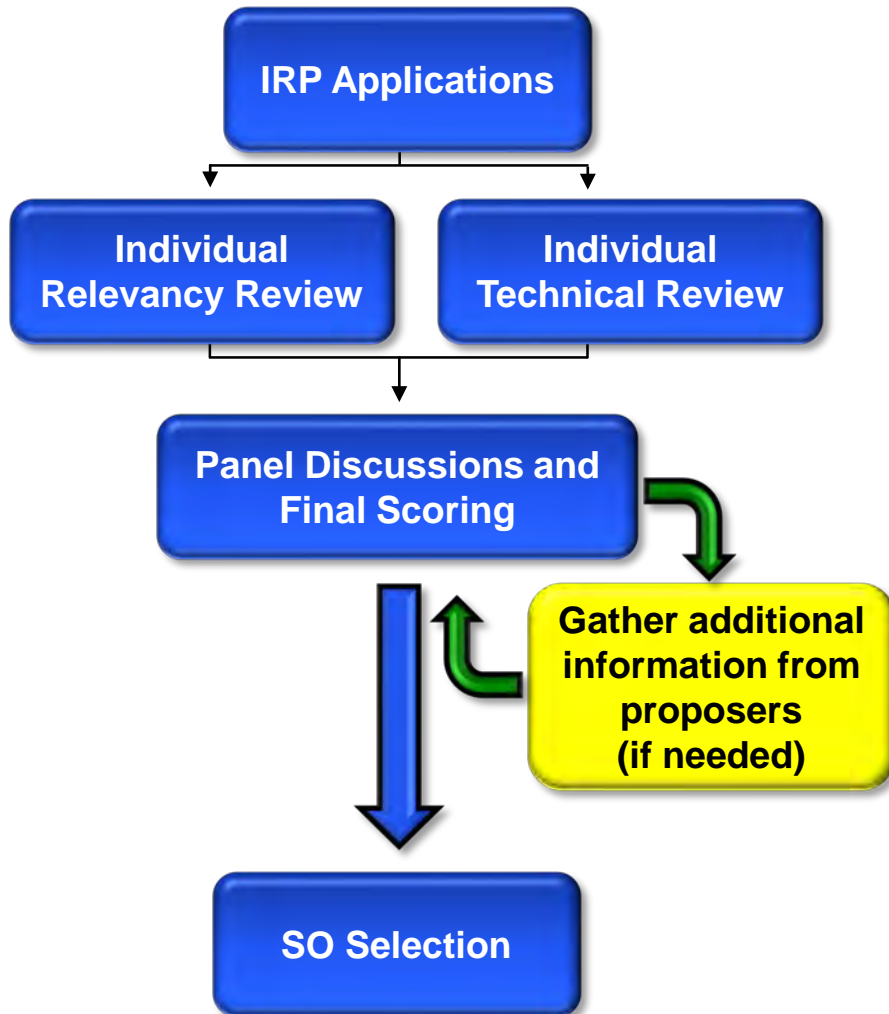
# Program Directed Review Process

- PD Integrated Research Projects (IRPs) are reviewed by a panel for relevancy and technical merit
- The panel is comprised of at least 5 people:
  - Two individuals for relevancy (Federal Program Manager, Technical Integration Office representative)
  - Three technical peers
- Individual scores are collected prior to convening the panel
- Applications and review scores are discussed by a federal merit review panel for final recommendation to the Selection Official



# NE Review Process

## Overview: PD Applications



**IRP Applications:** Submission of up to 50-page applications by university/industry/lab consortiums.

**Relevancy Reviewers:** Federal Program Manager and a National Laboratory programmatic expert.

**Technical Reviewer:** Mix of university, national lab, and at least one industry expert.

**Scoring:** Individual scores collected prior to the panel discussions and then considered and discussed as a panel to provide balancing. Individual scores may change based on discussions.

**Recommended Range:** The applications are placed into a recommended range generally ranked from highest to lowest score based on available funding. This range is presented to the SO for final project selection after consideration of additional subjective factors.

**SO Selection:** Presentation of recommendations Merit Review Chairperson.



# Program Directed Review

Relevancy Review (50%)	Technical Review (50%)
<ul style="list-style-type: none"><li>• Program Factors (20%)</li><li>• Cost Factors (20%)</li><li>• Collaboration Factors (10%)</li></ul>	<ul style="list-style-type: none"><li>• Scientific/Technical Merit (17.5%)</li><li>• Method or Approach (17.5%)</li><li>• Personnel and resources (15%)</li></ul>

Full criteria and guidance are provided in the FOA.



# PD (IRP) Review Criteria

- Scientific and/or technical merit of the project (17.5%)
- Appropriateness of the proposed method or approach (17.5%)
- Competency of the applicant's personnel and adequacy of the proposed resources (15%)
- Program factors (20%)
- Cost factors (20%)
- Collaboration factors (10%)
  - Focused on industry, international, URGs, and MSI
  - MSI (up to 5 additional points not to exceed the maximum allowable collaboration score)