



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Informational Webinar:

Fusion Energy Sciences – Reaching New Energy Science Workforce (FES-RENEW) Funding Opportunity Announcement (FOA)

DE-FOA-0002758 **AMENDED**

FOA Issue Date:	May 25, 2022
Submission Deadline for Letters of Intent:	June 29, 2022 , at 5PM Eastern Time
Letter of Intent Response Date:	July 13, 2022 , at 11:59 PM Eastern Time
Submission Deadline for Applications:	August 24, 2022 , at 11:59 PM Eastern Time

*Guinevere Shaw
Office of Fusion Energy Sciences
June 6, 2022*

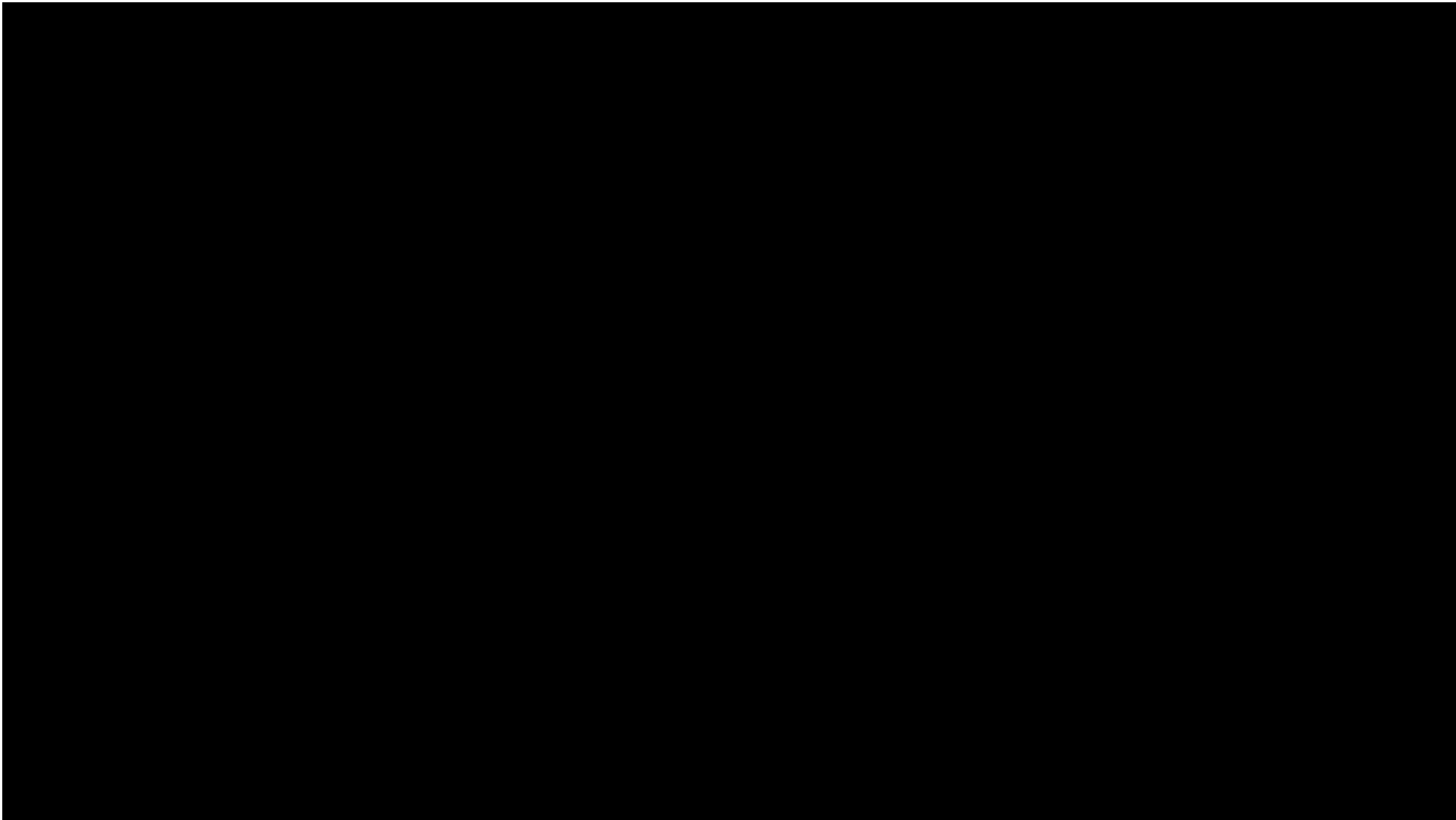
Disclaimer : *This presentation summarizes the contents of the FOA. Nothing in this webinar is intended to add to, take away from, or contradict any of the requirements of the FOA. If there are any inconsistencies between the FOA and this presentation or statements from DOE personnel, the FOA is the controlling document.*

Today's Agenda

- ▶ [Introduction to RENEW](#)
- ▶ [Fusion Energy Science Mission](#)
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The Office of Science Reaching a New Energy Science Workforce (RENEW) Initiative



Fusion Energy Science Mission: [DE-FOA-0002562](https://www.energy.gov/foia/records/2019-0002562)

To expand the fundamental understanding of matter at very high temperatures and densities and to build the scientific foundation needed to develop a fusion energy source.

- ▶ Advance the fundamental science of magnetically confined plasmas to develop the predictive capability needed for a sustainable fusion energy source;
- ▶ Support the development of the scientific understanding required to design and deploy the materials needed to support a burning plasma environment;
- ▶ Pursue scientific opportunities and grand challenges in high energy density plasma science to better understand our universe, and to enhance national security and economic competitiveness;
- ▶ Increase the fundamental understanding of basic plasma science, including both burning plasma and low temperature plasma science and engineering, to enhance economic competitiveness and to create opportunities for a broader range of science-based applications.

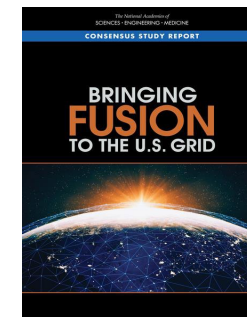
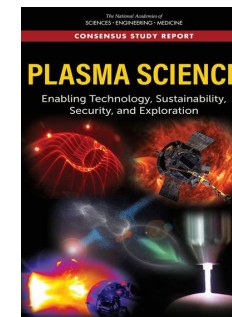
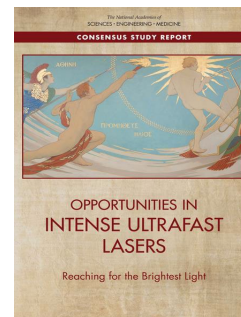
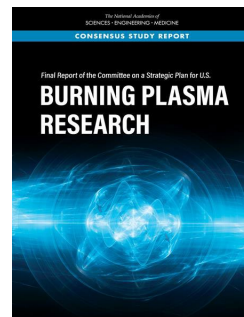
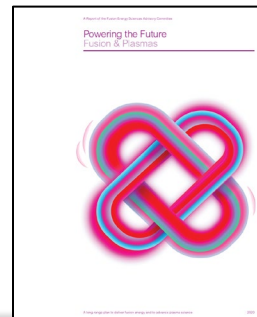
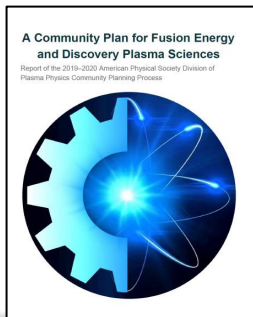


Image source: <https://usfusionenergy.org/>



Solicitation Context

- ▶ The Fusion Energy Science – Reaching a New Energy Science Workforce (FES-RENEW) Funding Opportunity Announcement (FOA) encourages the participation of underrepresented groups in FES’s fusion and plasma science and technology research portfolios by supporting sustainable research collaborations and undergraduate, graduate, and early career training opportunities between non-R1 institutions and/or MSIs and DOE national laboratories, SC designated user facilities, and DOE-sponsored facilities.
- ▶ The FOA’s emphasis aligns with current DOE and Administrations priorities and coordinated with the Office of Science RENEW initiative
- ▶ The scope is informed by priority research directions and opportunities defined in FES community reports as well as by the National Academy studies.



<https://science.osti.gov/fes/Community-Resources>

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FES-RENEW



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FES-RENEW FY 2022 FOA: Scope

- ▶ New applications from single and multi-institutional teams are requested to develop strong and sustainable collaborations to advance fusion and plasma science and technology
 - ▶ Developing opportunities for faculty and students underrepresented in FES research programs
 - ▶ Developing research collaboration between non-R1 institutions and/or MSIs and:
 - ▶ DOE National Laboratories
 - ▶ SC Designated User Facilities
 - ▶ DOE-sponsored Facilities
 - ▶ Other institutions
- ▶ Projects should aim to develop sustainable collaborations that supports FES research topics are outlined in [DE-FOA-0002562](https://www.energy.gov/foia/record/1002562)

FES-RENEW FY 2022 FOA: Key Elements

- ▶ The FOA solicits new applications only
- ▶ FOA seeks applications led by or partnering with (fully engaged in substantive roles on the project) non-R1 institutions and/or MSIs.
 - ▶ Partnering with a DOE/NNSA National Laboratory
 - ▶ Partnering with a private sector for-profit organization
 - ▶ Partnering with an institution of higher education
- ▶ FOA encourages multi-institutional teams
 - ▶ Collaborative Applications (FOA page 7)
 - ▶ Subawards (FOA page 8)
- ▶ Eligible Applicants (**Amended**): All types of domestic entities
 - ▶ DOE National Laboratories (can lead and be a team member)
 - ▶ Non-DOE/NNSA FFRDCs, and Other Federal Agencies(must be a team member)

This FOA uses the Department of Education 2021 eligibility determination of an institution's MSI status (<https://www2.ed.gov/about/offices/list/ope/ides/2021eligibilitymatrix.xlsx>) and the R1 Carnegie Classification of Institutions of Higher Education (https://carnegieclassifications.iu.edu/lookup/srp.php?clq=%7B%22basic2005_ids%22%3A%2215%22%7D&start_page=standard.php&backurl=standard.php&limit=0,50).

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FES-RENEW

FES-RENEW FY 2022 FOA: Award Information

(Sec. II of FOA)

- ▶ **Estimated Funding:** Subject to availability of funds, up to \$3 million in current and future fiscal year funds will be used to support awards under this FOA
- ▶ **Period of Performance:** Two years with an option to renew
- ▶ **Maximum/minimum award size:** DOE anticipates award sizes with range from:
 - ▶ Single-PI awards: \$150,000 to \$300,000
 - ▶ Multi-Institutional Teams: \$150,000 to \$500,000
- ▶ **Expected number of awards and award size:** The number of awards and award sizes will depend on the number of meritorious applications and the availability of appropriated funds
- ▶ **Types of awards instruments:** DOE anticipates awarding grants, cooperative agreements, interagency agreements, and National Laboratory authorizations under this FOA

FES-RENEW FY 2022 FOA: Letters of Intent (Sec. IV and Sec. VIII)

- ▶ Letters of Intent (LOI) are required: **June 29, 2022**
 - ▶ Single PI: single PI must submit an LOI
 - ▶ Subaward application: only lead institution must submit an LOI
 - ▶ Collaborative application: All participating institutions must submit an LOI
- ▶ Cover sheet
 - ▶ PI Name, address, sponsoring institution, title, names of senior/key personal, and a list (if applicable) of partnering institutions
- ▶ Description of proposed research program – three-page limit
- ▶ LOI Response with Program Manger Feedback: **July 13, 2022**

Checklist for avoiding common errors: Applications (not a comprehensive list of all FOA requirements)

- ▶ Tables: FOA requires a table of collaborators and conflicts of interest with the application
 - ▶ List of individuals who should not serve as reviewers (FOA p.48)
- ▶ Plan for Recruitment and Inclusion
 - ▶ A description of the following:
 - ▶ Recruiting and retaining
 - ▶ Fostering a positive, inclusive, and professional training and research environment
 - ▶ Addressing barriers
- ▶ A Data Management Plan
 - ▶ Additional Guidance on Digital Data Management (Effective 1/1/2022):
<https://science.osti.gov/Funding-Opportunities/Digital-Data-Management#agddm2>

Where to find more information

- ▶ FOA: [DE-FOA-0002758](#)
- ▶ This webinar is being recorded; slides and the recording will be posted on the FOA page listed above
- ▶ Questions about the FOA: Please send an email with your question(s) to:
Dr. Guinevere Shaw, Fusion Energy Sciences
guinevere.shaw@science.doe.gov

Question & Answers

Please submit questions using Zoom Q&A window, which should be accessible at the bottom of your zoom window

If your question is not answered today, or you have additional questions about the presentation, please submit to guinevere.shaw@science.doe.gov

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