

University Nuclear Leadership Program (UNLP)

May 9, 2024

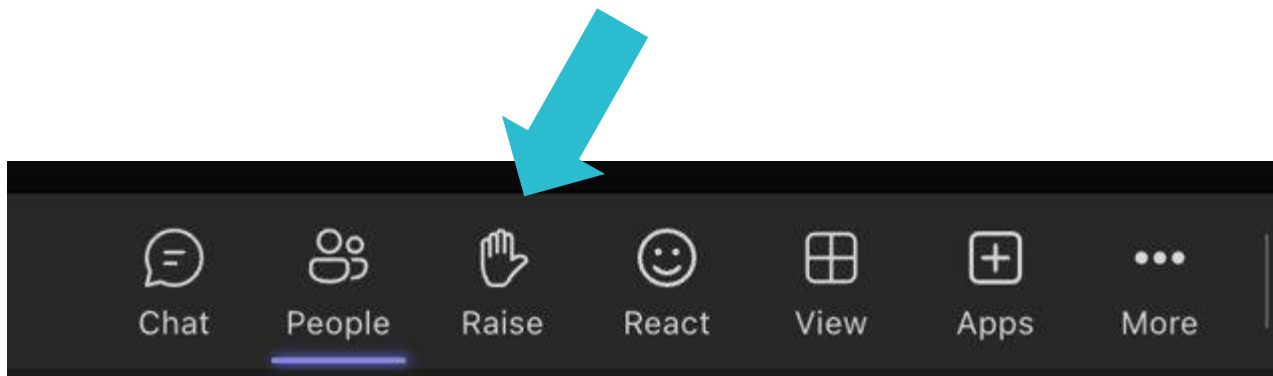
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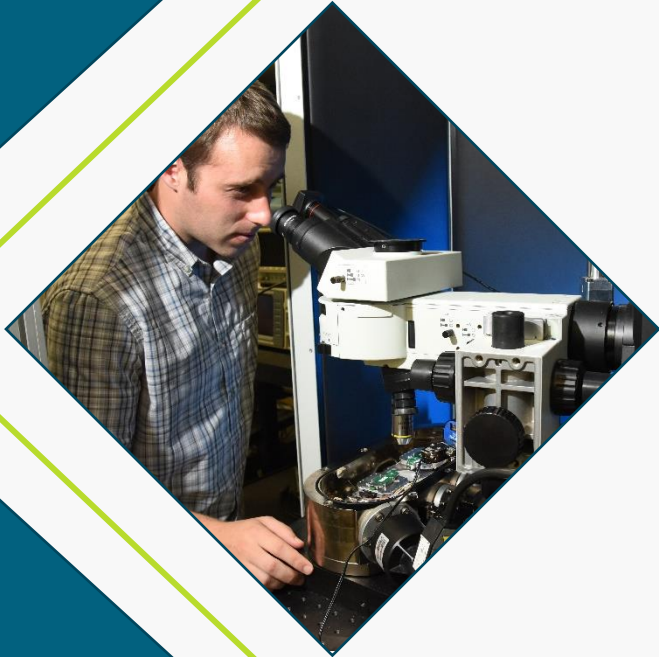
Andrew Ford
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How to Ask Questions During the Webinar

- Raise your hand and your microphone will be unmuted during the Q&A phase of the presentation.
- Questions that do **not** get answered during the allotted time will be answered and posted on www.NEUP.gov.



Overview



- Established in 2009 through the Omnibus Appropriations Act
- Joint effort with the Department of Energy (DOE), the Nuclear Regulatory Commission (NRC), and the National Nuclear Security Administration (NNSA) to provide support for university research and development, faculty, and students in areas critical to maintaining the discipline of nuclear science and engineering
- Each agency independently manages its own portion of the program
 - NE: Scholarships and fellowships
 - NRC: Faculty development, scholarships and fellowships
 - NNSA: Multi-university consortia

NE UNLP Objectives

- Attract the brightest students to the nuclear professions by providing undergraduate level scholarships and graduate level fellowships to students pursuing a nuclear energy-related degree
 - Enhance the research and development capabilities of U.S. universities
 - Build the next generation NE workforce, fulfilling the national demand for highly trained scientists and engineers to work in NS&E areas



Relevant Disciplines

Relevant disciplines include the following (but are not limited to):

- nuclear engineering
- mechanical engineering
- chemical engineering
- electrical engineering
- chemistry
- health physics
- nuclear materials science
- radiochemistry
- applied nuclear physics
- nuclear energy policy
- radiation protection technology
- nuclear power technology
- nuclear maintenance technology
- nuclear engineering technology
- nuclear operations
- computer science
- cybersecurity
- nuclear safety
- mechanical & electrical maintenance

Disciplines that are not a priority for NE:

- medical physics
- nuclear fusion
- nuclear forensics
- environmental management

NE UNLP Funding Opportunities

Scholarship and Fellowship Requests for Applications (RFAs)

- Undergraduate and graduate students from two and four-year Institutions of Higher Education (IHEs) pursuing a discipline related to nuclear energy
- Opportunities are promoted through a mailing list and website posting, as well as at various conferences and university visits
- Approximately 90 scholarships and 30 fellowships depending on funding level (~\$6M)
- Next round of RFAs anticipated for August 2024 release

University Funding Opportunity Announcement (FOA)

- For universities and colleges to establish their ability to accept student scholarship and fellowship funds through UNLP and manage the award on behalf of NE

Four-year College/University Program

Award Amounts:

- Scholarship – \$10,000 one-year award
- Fellowship – \$169,000 over three years

RFA General Requirements:

- U.S. citizen or legal permanent resident
- Beyond first year in college (scholarships only)
- Enrolled in a UNLP-approved college or university determined by the FOA application
- Field of study of interest to NE
- Minimum 3.25 undergraduate GPA; 3.5 GPA at graduate level (fellowships)
- Minimum 3.0 GPA (scholarships)





Trade School and Community College Scholarship Program

FY 2023 Award Description

- Training nuclear energy-related technicians in areas such as health physics, radiation protection, and nuclear operations
- One-year, \$5,000 award

NE is considering changes for this award to more directly benefit two-year students and schools

Required Documents

Scholarships:

- Personal Career Goals essay
- Three letters of reference (four-year schools)
- Two letters of reference (trade schools/community colleges)
- Unofficial academic transcripts

Fellowships:

- Personal Career Goals essay
- Proposed graduate research essay
- Three letters of reference
- Unofficial academic transcripts
- Leadership summary

Fellowships: Internships and Required Reporting

Internship

- Fellows are required to participate in a 10-week minimum internship at DOE, a DOE national laboratory, or a facility designated and approved by NE.
- An additional \$7,000 allowance is provided to offset the costs of travel and housing.
- Students work with their advisors to identify an appropriate internship.
- Fellows submit a report at the end of their internship.

Reporting

- Fellows submit an annual report at the end of each academic year, as well as a final report at the conclusion of their award.
 - Reports include accomplishments for the year, plans for the following year, and a list of presentations/papers/patents.
 - Concluding fellows also provide annual updates on career progress for up to 5 years after their award ends.

The image features a vertical strip on the left side showing the American flag (stars and stripes) and the Union Jack (British flag) overlapping each other. The background of the slide is a solid teal color.

Fellowships: United Kingdom (UK) Exchange

Starting with FY 2023, UNLP Fellows will have the opportunity to participate in a new United Kingdom (UK) exchange opportunity

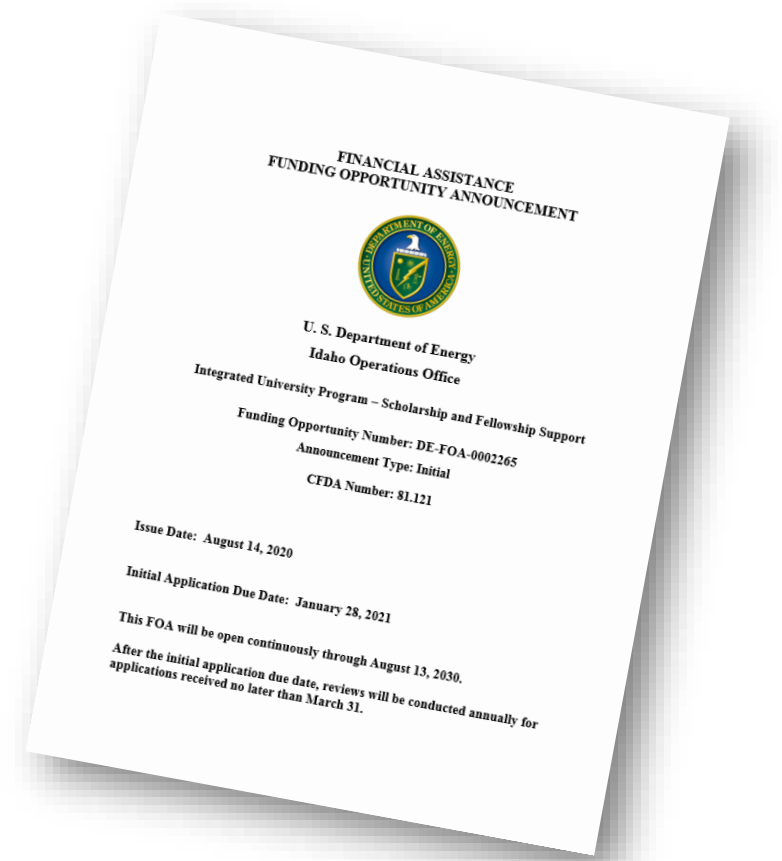
- Up to 10 UNLP Fellows will be competitively selected
- Approximately a week-long visit to nuclear-related facilities in the United Kingdom
- Additional funding will be provided for this opportunity

University Funding Opportunity Announcement

- Serves as a support mechanism for annual UNLP RFAs to student applicants.
- Establishes cooperative agreements between Institutions of Higher Education (IHEs) and DOE as an instrument to receive UNLP funds to be administered to students.
- Under the new FOA, released October 14, 2020, NE has issued 68 cooperative agreements to IHEs.
- Provides an opportunity for U.S. IHEs to submit a new application to remain, or become, an approved UNLP institution and to administer award funds.

University FOA Details (DE-FOA-0002265)

- DOE-NE anticipates awarding cooperative agreements under this FOA
- Only one cooperative agreement award per U.S. IHE is necessary
- U.S. IHEs awarded under this FOA will be recognized for up to 13 years; however, in no event will new scholarships/fellowships be awarded after year 10 of this FOA



University FOA Details (Continued)

- Funding will not be provided to IHEs when they are selected as an approved institution.
- Funding will be incrementally added to IHE accounts via an amendment to the established agreement in the amount necessary to fund annual scholarship and fellowship awards for selected students that will attend the IHE.
- The number of awards to U.S. IHEs in any given fiscal year will depend on the actual number of eligible applicants.
- No funding will be provided to any U.S. IHE unless a student has received a DOE-NE scholarship or fellowship award and is accepted or currently enrolled at that U.S. IHE.
- The selection of students to receive scholarships and fellowships through the program will occur annually via a separate DOE-NE process.

Eligibility

- Restricted to U.S. IHEs with two-, four-year, and graduate programs of student in science and engineering disciplines related to nuclear energy.
- Students attending minority-serving Institutions (MSIs), including Tribal Colleges and Universities (TCUs), Historically Black Colleges and Universities (HBCUs), or institutions located in a disadvantaged community are highly encouraged to apply to the RFA.
- U.S. IHEs with cooperative programs which share coursework between two or more U.S. IHEs to meet the above requirements are also encouraged to apply.

IHE Responsibilities

- Comply with terms and conditions of the awarded cooperative agreement.
- Promote the U.S. Department of Energy, Office of Nuclear Energy University Nuclear Leadership Program Scholarship and Fellowship Support opportunities at your school.
- Distribute scholarship/fellowship funds to enrolled students selected/identified by NE to receive scholarships/fellowships in accordance with program guidelines.
- Collect and timely submit information required for interim, annual, and final reports.
- Return any unused funds provided for each participating student(s) at completion of the school year for scholarships, or at completion of the period covered by fellowships, or as directed by DOE.
- Agree not to charge any indirect costs or charge a fee to administer the funds received. All funding is provided for the benefit of the student.

Required Documents

- **Applicants apply at neup.gov**
- **SF 424 – Application for Federal Assistance**
- **Program Narrative File**
 - Program Description
 - Faculty Description
- **Certifications and Assurances**
- **Principal Investigator Curriculum Vitae**
- **SF-LLL Disclosure of Lobbying Activities**

Resources at [NEUP.GOV](https://neup.gov)

University FOA:

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Contacts



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Questions?



Back-Up Slides

UNLP-approved Universities/Colleges

UNLP-Approved Institutions			
1	Abilene Christian University	16	Illinois Institute of Technology
2	Alfred University	17	Kansas State University
3	Arizona State University	18	Kennesaw State University
4	Auburn University	19	Massachusetts Institute of Technology
5	Boise State University	20	Mississippi State University
6	Brigham Young University	21	Missouri University of Science & Technology
7	Case Western Reserve University	22	Montana State University
8	Chattanooga State Community College	23	North Carolina State University
9	Clemson University	24	Northern New Mexico College
10	Colorado School of Mines	25	Oregon State University
11	Colorado State University	26	Pennsylvania State University
12	Florida International University	27	Purdue University
13	Francis Marion University	28	Rensselaer Polytechnic Institute
14	Georgia Institute of Technology	29	Rutgers University
15	Idaho State University	30	South Carolina State University

UNLP-Approved Universities/Colleges

UNLP-Approved Institutions			
31	Southeast Community College	44	University of Connecticut
32	State Technical College of Missouri	45	University of Florida
33	Stillman College	46	University of Idaho
34	Texas A&M University	47	University of Illinois, Urbana-Champaign
35	Texas A&M University, Kingsville	48	University of Maryland, College Park
36	The Ohio State University	49	University of Massachusetts, Lowell
37	Thomas Edison State University	50	University of Michigan
38	University of Alabama	51	University of Mississippi
39	University of California, Berkeley	52	University of Missouri, Columbia
40	University of California, Irvine	53	University of Nevada, Las Vegas
41	University of California, San Diego	54	University of Nevada, Reno
42	University of Central Florida	55	University of New Mexico
43	University of Chicago	56	University of Notre Dame

UNLP-Approved Universities/Colleges

UNLP-Approved Institutions			
57	University of Pittsburgh	63	University of Wisconsin, Madison
58	University of South Carolina	64	Utah State University
59	University of Tennessee at Knoxville	65	Vanderbilt University
60	University of Texas at Arlington	66	Virginia Commonwealth University
61	University of Texas at Austin	67	Virginia Polytechnic Institute and State University
62	University of Utah	68	Washington State University