Opportunity Title: EERE Science, Technology and Policy Opportunity Advanced Manufacturing Office
Opportunity Reference Code: DOE-EERE-STP-AMO-2022-1100

Organization U.S. Department of Energy (DOE)

Reference Code DOE-EERE-STP-AMO-2022-1100

How to Apply Click on *Apply* below to start your application.

ORISE is continuing normal program operations during the COVID-19 pandemic. This opportunity will be offered as long as Department of Energy Headquarters is able to complete the onboarding process and ensure a meaningful experience to participants. We encourage you to apply and submit your application as soon as possible. Updates to this opportunity will be provided on this page as needed.

Description The Energy Efficiency and Renewable Energy (EERE) Science, Technology and Policy (STP) Program serves as a next step in the educational and professional development of scientists and engineers by providing opportunities to participate in policy-related projects at DOE's Office of Energy Efficiency and Renewable Energy in Washington, D.C. Participants will become part of a group of highly-trained scientists and engineers with the education, background, and experience to be part of the workforce that supports the DOE's mission in the future.

The Advanced Manufacturing Office (AMO) is part of the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy. The Department of Energy's (DOE) Advanced Manufacturing Office (AMO) is dedicated to improving energy and material efficiency, productivity, and competitiveness of manufacturing, including driving industrial decarbonization. We also invest in manufacturing innovation to accelerate and strengthen clean energy technology manufacturing, material supply chains and the broader clean economy, supporting the growth of a modern, equitable manufacturing industry. Current priority topics for AMO include industrial decarbonization, critical materials, sustainable materials, supply chains, energy storage manufacturing, and the energy-water nexus.

Innovation is central to AMO's vision, mission, and activities. New materials combined with innovative processing techniques can accelerate the transition of promising energy systems to improve the competitiveness, and ultimately strategic advantage, of U.S. manufacturing. In order to catalyze the adoption of cutting-edge clean energy technologies, AMO invests resources at critical decision points to help overcome technological barriers that could be seen as too risky for the private sector to take on alone.

By identifying and assessing opportunities to advance emerging technologies, we make strategic investments, which include new Manufacturing USA Institutes. These institutes accelerate the development of innovative advanced materials, information, and process technologies and transfer technologies to industry partners by developing national capabilities that enable future global leadership and workforce development in advanced manufacturing.

AMO's Research and Development (R&D) projects explore novel energy-efficient, next-generation materials and innovative process technologies for

both targeted specific industry sectors and a wider range of manufacturing industries.

In addition, R&D projects focus on foundational or advanced energy technologies across multiple industry sectors. All of AMO's R&D investments are high impact, use project diversity to spread risk, target nationally important innovations at critical decision points, and contribute to quantifiable energy savings.

AMO also engages in a range of technical collaboration and workforce development programs.

AMO is seeking talented and passionate ORISE Fellows that can support technical, programmatic, strategic, and policy efforts that will meet clean energy goals and drive innovation in U.S. manufacturing. Fellows will collaborate closely with AMO staff – including several former Fellows – and will develop a broad understanding of the potential of new technologies as well as the barriers to technology deployment. With guidance from a mentor you will learn how to:

- Utilize scientific expertise to support decision-makers in the areas of energy efficiency policy, planning, research, development, and communication
- Analyze technical needs and opportunities and the potential impacts of program and policy decisions
- Provide input for analysis on industrial decarbonization, circular economy, and workforce development
- Assess the potential for next generation materials and processes
- Evaluate approaches to achieve practical minimum energy requirements and minimum lifecycle energy to manufacture and deploy next generation technologies
- Identify and evaluate new materials efficiency, waste reduction and recycling technologies
- Act as a technical resource for AMO early stage applied research and development projects

Through these activities, Fellows will help establish and nurture the critical link between DOE decision-makers and other scientific professionals to support public policy.

Participant Benefits

Selected fellows will receive a stipend as support for their living and other expenses during this appointment. Stipend rates are determined by EERE officials and are based on the candidate’s academic and professional background. Relocation expenses, not to exceed $5,000, incurred in relocating from the participant's current address to Washington, D.C. (if more than 50 miles from the address shown on the application), may be

reimbursed. Participants will receive a travel allowance of $10,000 per appointment year to cover travel-related expenses to scientific and professional development activities.

This opportunity is available to U.S. citizens and Lawful Permanent Residents. (LPR).

For more information about the EERE Science, Technology and Policy Program, please visit https://www.energy.gov/eere/education/energy-efficiency-and-renewable-energy-science-technology-and-policy-program

Appointment Location

Washington, D.C.

Nature of Appointment

The fellow will not enter into an employee/employer relationship with ORISE, ORAU, DOE, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE letter of appointment and Terms of Appointment.

Qualifications **Qualifications**

Program eligibility requirements can be found at: visit https://www.energy.gov/eere/education/energy-efficiency-and-renewable-energy-science-technology-and-policy-program

Qualified candidates will have a strong technical background in an engineering field or applicable physical sciences (e.g. materials, chemistry, and physics) and preferably experience in industry.

How to Apply:
A complete application consists of:

- An application
- Transcript(s) - For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. Selected candidate may be required to provide proof of completion of the degree before the appointment can start.
- A current resume/curriculum vitae (CV)
- Letter of Recommendation

The resume/CV must include the following:

- Basic applicant Information: Name, address, phone, email, and other contact information.
- Work & Research Experience: List all work and research experiences beginning with current or most recent. Include the name of the employer, location, position held, and time period involved.
- Leadership Experience: List experiences (e.g., work, civic, volunteer, research) that demonstrate your leadership skills. Detail your role, type of experience, organization, location, and duration.

Opportunity Title: EERE Science, Technology and Policy Opportunity Advanced Manufacturing Office
Opportunity Reference Code: DOE-EERE-STP-AMO-2022-1100

• Educational History: List all institutions from which you received or expect to receive a degree, beginning with current or most recent institution. Include the name of the academic institution, degree awarded or expected, date of awarded or expected degree, and academic discipline.
• Honors & Awards: List in chronological order (most recent first) any awards or public recognitions. Include the name of awarding institution, title of the award or honor, and date of award or honor.

If you have questions, please send an email to DOE-RPP@orise.orau.gov. Please list the reference code for this opportunity in the subject line of your email.

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Communications and Graphics Design** (1 👁)
  - **Computer, Information, and Data Sciences** (7 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (21 👁)
  - **Environmental and Marine Sciences** (4 👁)
  - **Mathematics and Statistics** (11 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (2 👁)
- **Age:** Must be 18 years of age