Opportunity Title: Clean Coal and Carbon Management Opportunity
Opportunity Reference Code: DOE-STP-FE-2021-02

Organization U.S. Department of Energy (DOE)

Reference Code DOE-STP-FE-2021-02

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

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Application Deadline 4/30/2021 11:59:00 PM Eastern Time Zone

Description The U.S. Department of Energy (DOE) Science, Technology and Policy Program is designed to provide opportunities to participate in programs, projects, and activities at the Office of Fossil Energy (FE). The STP Program provides an opportunity for highly talented scientists and engineers to participate in policy-related projects at DOE's Office of Fossil Energy in Washington, D.C. This opportunity will include engineering and scientific tasks to determine and advise on advanced carbon utilization technologies and systems. Carbon utilization is a broad term used to describe the many ways that captured carbon oxides - principally carbon dioxide (CO2)– can be used or "recycled" to produce economically valuable products or services. This opportunity will focus on the program's conversion pathway, which includes electrochemical systems, to transform carbon dioxide into fuels and chemicals.

As a participant, you will be placed with the Carbon Management division and learn skills and activities that are critical to FE's technology mission. You will participate in technology management projects within the Carbon Utilization Program. For more information, visit https://www.energy.gov/fe/carbon-utilization or more information about the Office of Fossil Energy visit: https://www.energy.gov/fe/office-fossil-energy.

Participant Benefits

You will receive a stipend as support for your living and other expenses during this appointment. Stipends are typically based on the participant's academic standing, discipline, experience, and research facility location. Relocation expenses, not to exceed $5,000, incurred in relocating from your current address to Washington, D.C. (if more than 50 miles from the address shown on the application), may be reimbursed. You will receive a travel allowance of $5,000 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).

Appointment Location

Washington, DC

Nature of Appointment

The participant 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 appointment letter and Terms of Appointment.

Qualifications Applicants should have completed a graduate program in Engineering (e.g. Chemical or Electrical) or in one of the Physical Science disciplines (e.g., Chemistry, Geology, Geochemistry, Geophysics, etc.) from an accredited institution.

Preferred Skills for each project are listed below:

- Specific knowledge of the principles, practices, methods, techniques, processes, and procedures related to electrochemical carbon dioxide conversion systems
- Ability to review technical work in research, development, design, operational analysis, evaluation, and improvement processes, systems, and subsystems associated with carbon utilization systems, methods, or products
- Familiarity with life cycle assessment and techno-economic analysis
- Be able to provide technical and management advice and recommendations to Program Manager and related project groups as requested
- An interest in contextualizing deeper technical assessments of R&D investment in terms of viable commercial maturation of technologies and environmental sustainability implications

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/CV

The resume/CV must include the following:

- Basic applicant Information: Name, address, phone, and email
- 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 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.
- 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.

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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.

All documents must be in English or include an official English translation.

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:** Master's Degree or Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (11 👁)
  - **Computer, Information, and Data Sciences** (1 👁)
  - **Earth and Geosciences** (1 👁)
  - **Engineering** (8 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Life Health and Medical Sciences** (1 👁)
  - **Science & Engineering-related** (1 👁)
  - **Social and Behavioral Sciences** (1 👁)
- **Age:** Must be 18 years of age