Opportunity Title: Opportunity at DOE Office of Fossil Energy and Carbon Management
Opportunity Reference Code: DOE-STP-FECM-2022-01

Organization U.S. Department of Energy (DOE)

Reference Code DOE-STP-FECM-2022-01

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

This is a continuous posting. Applications will be reviewed and selected as opportunities become available.

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 and Carbon Management (FECM). The STP Program provides an opportunity for highly talented scientists and engineers to participate in technical and policy-related FECM projects.

The FECM is seeking motivated students, postgraduates, and faculty to participate in projects at the forefront of the clean energy transition, helping to address the climate crisis through a 12-month full-time fellowship with FECM. FECM plays an important role in providing solutions that address the climate crisis. We are working to minimize the climate and environmental impacts of fossil energy and to advance carbon management.

The Office of Carbon Management research priorities include point source carbon capture, CO_2 removal, CO_2 conversion into products, reliable CO_2 storage; blue hydrogen production; and critical mineral production from industrial and mining waste. Point source carbon capture and reliable storage (CCS), as well as CO_2 removal to address our hardest to decarbonize sectors are essential to get where we need to be – a low-carbon economy at the lowest possible cost. As a global leader in the research and development of CCS, carbon removal, reliable storage, and the conversion of CO_2 into products, FECM is also working on developing and deploying low-carbon supply chains like cement and concrete, steel, paper, fuel, nylon polyester, and other important products.

The Office of Resource Sustainability's research priorities include reducing emissions from natural gas supply, delivery, and storage infrastructure, reducing the surface and subsurface risks and impacts from oil and natural gas development, and developing technologies and practices that allow us to use our natural gas resources while meeting our climate goals. Office of Resource Sustainability is also developing technologies to transition to a hydrogen economy by improving the efficiency and effectiveness of the proven technologies for hydrogen production from natural gas, transportation, and storage and working to identify and remediate super-emitters, including sources of flaring and abandoned wells.

As an ORISE participant, you will gain insight into the Federal government's role in the creation of clean energy technology research and development; be provided an opportunity to contribute to a project or projects related to energy and climate change policies by applying scientific and technical knowledge; and continue your education and involvement in areas that support the DOE mission either in a technical or policy-related role. You will become part of a team and be mentored by highly-trained staff that

support the DOE's priorities to combat the climate crisis, create clean energy union jobs, and promote energy justice.

For more information about the Office of Fossil Energy and Carbon Management, please visit https://www.energy.gov/fecm/office-fossil-energy-and-carbon-management

Participant Benefits

FECM will provide a supplemental stipend to offset the costs of health insurance. Participants are eligible to purchase health insurance plans offered through ORISE. Participants may receive an allowance for education and/or scientific activities as approved by FECM. The initial appointment can be for one year or less, but may be renewed upon recommendation of FECM contingent on the availability of funds up to 4 additional years. The appointment can be made on a full-time or part-time basis.

Stipends will be based on appointment level and commensurate with qualifications:

Student: Selected applicant will receive a stipend starting at $50,000-$75,000.

Postgraduate: Selected applicant will receive a stipend starting at $75,000-$100,000.

Faculty: Selected applicant will receive a stipend starting at $100,000-$125,000.

This opportunity is available to U.S. citizens.

Appointment Location

Washington, DC

Germantown, MD

Due to COVID-19 restrictions, remote appointments may be approved.

Nature of the Appointment

The participant will not enter into an employee/employer relationship with ORISE, ORAU, the 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 Participants must fall into one of the following categories:

- **Student:** Candidate must be an undergraduate or graduate student enrolled in an accredited U.S. college, university, technical institute, or must be in an institution approved by FECM. Part-time students may be considered with sponsor approval.
- **Postgraduate:** Candidate must have received an associate's,

Opportunity Title: Opportunity at DOE Office of Fossil Energy and Carbon Management
Opportunity Reference Code: DOE-STP-FECM-2022-01

bachelor's, master's or doctorate degree. Otherwise, the candidate will be required to complete all requirements for such a degree prior to the desired starting date.
- **Faculty:** Candidate must be full-time faculty member at an accredited U.S. college, university, technical institute, or must be at an institution approved by FECM.

How to Apply

A complete application consists of:

- Zintellect Profile and responses to opportunity specific questions
- A current resume/CV, including academic history, employment history, and relevant experiences
- Academic Records - 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.
- One Recommendation - Applicants are required to provide contact information for one recommendation in order to submit the application. You are encouraged to request a recommendation from professionals who can speak to your abilities and potential for success as well as your scientific capabilities and personal characteristics. Recommendation requests must be sent through the Zintellect application system. Recommenders will be asked to complete a recommendation in Zintellect. Letters of recommendation submitted via email will not be accepted.

*All documents **must** be submitted via Zintellect in order to be considered and must be in English or include an official English translation. Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.*

If you have questions, send an email to DOE-RPP@orau.org. Please include the reference code DOE-STP-FECM-2022-01 for this opportunity in your email.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Discipline(s):**
  - **Business** (11)
  - **Chemistry and Materials Sciences** (12)
  - **Communications and Graphics Design** (6)
  - **Computer, Information, and Data Sciences** (16)
  - **Earth and Geosciences** (21)

Opportunity Title: Opportunity at DOE Office of Fossil Energy and Carbon Management
Opportunity Reference Code: DOE-STP-FECM-2022-01

- **Engineering** (27 👁)
- **Environmental and Marine Sciences** (14 👁)
- **Life Health and Medical Sciences** (45 👁)
- **Mathematics and Statistics** (10 👁)
- **Other Non-Science & Engineering** (13 👁)
- **Physics** (16 👁)
- **Science & Engineering-related** (1 👁)
- **Social and Behavioral Sciences** (27 👁)

- **Age:** Must be 18 years of age