

Opportunity Title: Office of Critical and Emerging Technologies Fellow

Opportunity Reference Code: DOE-STP-CET-2024-2402

Organization U.S. Department of Energy (DOE)

Reference Code DOE-STP-CET-2024-2402

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

Description The U.S. Department of Energy (DOE) Science, Technology, and Policy Program is designed to provide opportunities for postgraduates and faculty to participate in programs, projects, and activities at the Department. Fellows will receive hands-on experience that provides an understanding of the mission, operations, and culture of the DOE. As a result, fellows will gain deep insight into the federal government's role in the creation and implementation of energy technology policies; apply their scientific, policy, and technical knowledge to the development of solutions to issues of importance to the DOE and continue their education and involvement in areas that support the DOE mission either in a technical or policy-related role.

About the Office of Critical and Emerging Technologies

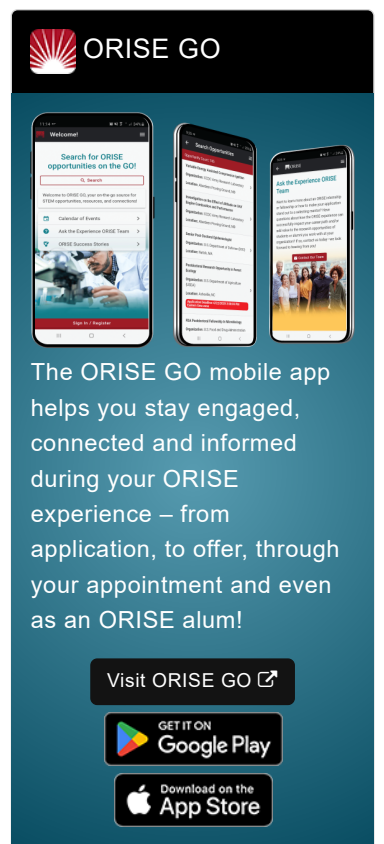
The Office of Critical and Emerging Technologies (CET) facilitates exchange among Departmental entities responsible for the development of critical and emerging technologies to advance Department of Energy (DOE) mission priorities. Emerging Technologies may include but are not limited to artificial intelligence and machine learning, quantum information and sensing technologies, high-performance computing, communications technologies, semiconductors and microelectronics, biotechnology, biomanufacturing, synthetic biology, genomics, pandemic surveillance and detection, advanced materials and manufacturing, and robotics and automation.

Providing a coordinated strategic outlook of these technologies will allow DOE leadership, as well as interagency and congressional stakeholders, to maximize the impact of DOE capabilities and investments in key areas of national importance including microelectronics, artificial intelligence and computing, and biotechnology. DOE advances in these areas not only strengthens its scientific, energy, and security missions but also support U.S. technological advantage in the global competition for economic leadership in the 21st century. CET seeks a Fellow to participate collaboratively across the Office and its major functions.

What Will I be Doing?

With guidance from a mentor from CET, the selected fellow will:

- Learn about the coordination of DOE equities across multiple and diverse program portfolios, including alignment with National Labs and partners from industry and other sectors.
- Collaborate to develop new ideas and guidance that will inform multi-office research planning on crosscutting topics and key Departmental initiatives involving CET
- Learn about visibility and awareness of DOE capabilities in interagency and other key forums.
- Experience high-profile rollout on events that include the participation of the Secretary, Deputy Secretary, or Under Secretary for Science and Innovation.
- Learn about the structuring and development of cross-office budget requests and narratives.
- Participate in the creation of forums to collect input from the stakeholder community and from across DOE.
- Lean to develop and implement communications and outreach plans and materials.
- Learn about drafting and reviewing memos, testimonies, reports, and policy and strategy documents.
- Learn about alignment of existing and new DOE initiatives involving CET and Administration priorities, including advancing the participation of and benefits for underrepresented groups.

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The fellow will collaborate closely with all elements of the CET Office and with relevant DOE program offices across the complex. The fellow will be mentored by the CET Director.

Participant Benefits

Participants will be eligible for a monthly stipend for their participation in the opportunity. Stipend will be set by DOE.

Selected fellows are also eligible for a health insurance stipend to offset the cost of health insurance. Additionally, a travel and training allowance up to \$10,000 will be available for the duration of the appointment.

The fellowship will be awarded in 12-month increments based on an annual review of research progress. Continued renewals will be dependent on DOE funding and mentor approval.

Appointment Location

Washington, D.C

Nature of the 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 letter of appointment and Terms of Appointment.

Qualifications Qualifications

Applicants must have completed their Bachelor's, Master's, or Doctoral degree within the last 5 years. If it has been more than 5 years since the receipt of the degree, to be considered the applicant must have an academic background and experience in a relevant field and must be seeking to gain new knowledge/experience to expand career opportunities or to advance professionally.

Preferred Qualifications

- A Master's or a Doctoral degree in one of the following disciplines: Artificial Intelligence, Computer Architecture and Grids, Computer Science, Information Science and Technology, or Scientific Computing and Informatics.
- Experience in public policy either at the state or federal government level or in an NGO focused on advocacy or policy.
- Experience in tracking developments in a range of areas related to the DOE mission, from advanced clean energy, to the role of the DOE National Laboratories in pandemic preparedness, to microelectronics, to synthetic biology, AI, and more.

The candidate should be a strong communicator, facilitator, and collaborator with excellent writing and interpersonal skills. The candidate should be highly organized, an effective multi-tasker, and able to manage significant flows of information.

How to Apply

A complete application consists of:

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- Zintellect Profile and responses to opportunity specific questions.
- Transcripts/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.
- A current resume/CV, including academic history, employment history, and relevant experiences (*see below for instructions).
- One Recommendation - Applicants are required to provide contact information for one recommender 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. Recommendations must be submitted on your behalf through Zintellect before an offer is made.

*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 (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system.*

*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.
- 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: [DOE-STP-CET-2024-2402]

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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.
 - **Academic Level(s):** Post-Bachelor's, Postdoctoral, or Post-Master's.
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([5](#) )
 - **Age:** Must be 18 years of age