

Opportunity Title: Vehicle Technologies Office – Data, Modeling, and Analysis

Opportunity

Opportunity Reference Code: DOE-EERE-STP-VTO-2023-1301

Organization U.S. Department of Energy (DOE)

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How to Apply To apply click on *Apply* at the bottom of this page.

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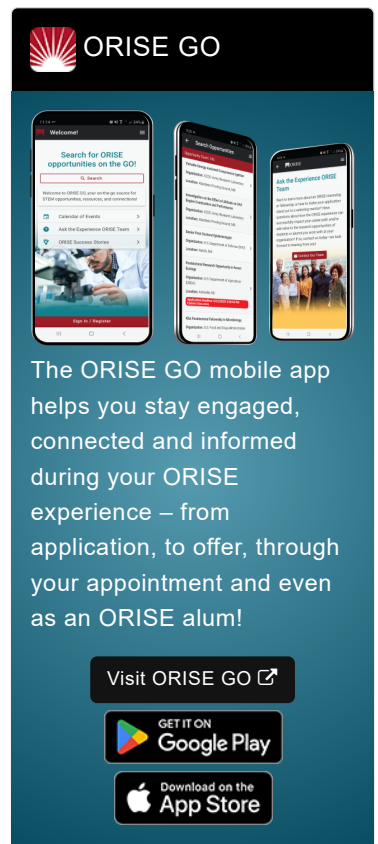
Description The Energy Efficiency and Renewable Energy (EERE) Science, Technology and Policy (STP) Program serves as a next step in the educational and professional development of scientists and engineers by providing opportunities to participate in policy-related projects at DOE's Office of Energy Efficiency 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 U.S. Department of Energy's (DOE) Vehicle Technologies Office (VTO) supports research, development, deployment, and demonstration (RDD&D) of new, efficient, and clean mobility options that are affordable for all Americans. The office's investments leverage the unique capabilities and world-class expertise of the National Laboratory system to develop new innovations in vehicle technologies, including: advanced battery technologies, advanced materials for lighter-weight vehicle structures and superior powertrains, energy-efficient mobility technologies and systems, advanced powertrains and fuels to decarbonize the transportation system, and technology deployment and integration at the local and state level. The office is uniquely positioned to address early-stage challenges due to its strategic research partnerships with industry that leverage relevant technical and market expertise.

VTO seeks a talented and committed individual to engage in the VTO Data, Modeling, and Analysis opportunity. This Fellowship will last one year, with the opportunity to renew for an additional year at discretion of the sponsoring office. Your learning opportunities include:

- Under the guidance of a mentor, serving as a technologist, economist, and analyst, applying advanced analytical tools, concepts, principles, processes, and procedures to answer transportation related questions posed by Program Leadership, Senior Management, the National Academies, other offices within DOE (e.g., Joint Office of Energy and Transportation, Office of Policy, Office of Electricity, and Office of Manufacturing and Energy Supply Chains) and other government agencies (e.g., U.S. Environmental Protection Agency, U.S. Department of Transportation, etc.).
- Keeping abreast of the latest engineering technological advances in state-of-the-art applications pertaining to development of new analytical tools and theories and identifying functional gaps/opportunities in current analytical tools including but not limited to big data analytics and high-performance computing.
- Engage VTO on interagency task forces, committees, and other groups or conferences relating to analysis and policy issues. Collaborate on giving polished presentations regarding the Program's analytical findings to internal and external audiences.
- Cooperating with and offering technical insights to national laboratory researchers and other research partners evaluating vehicle fuel economy and fleet composition (light-, medium-, and heavy-duty), shared mobility and micromobility usage trends and the relationship between available mobility options, modeshare and transportation energy use, technology readiness



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across relevant transportation and related technology systems (e.g. EV charging stations, the vehicle-grid interface, etc.), technology cost reduction, market penetration, greenhouse gas reductions across transportation modes, and equitable access to clean fuel technologies.

Integrate these analyses to improve project management and efficiently evaluate the potential benefits of pursuing various GHG reduction strategies (e.g., vehicle electrification, shared mobility, micromobility and assessing modal choices, analyzing fuel and technology alternatives across the off-road and non-road sub-sectors, and vehicle lightweighting).

- Engage in preparing a variety of reports relating to vehicle technologies activities in an assigned area and disseminate information as needed to officials in the office's and agency's senior leadership, field organizations, and other organizations as appropriate. Under the guidance of a mentor, serve as a principal point of contact and resource in interpreting report data and in the resolution of complex problems identified by such documents.
- Participate, alongside other members of VTO, in developing budget, Congressional testimony, research reports, and other related documentation for assigned activities. Participate in briefing senior DOE management on program progress, problems, and results.

These activities may be carried out in collaboration with teams of multi-level federal employees, other participants, support service contractors, and experts from national laboratories.

Participant Benefits

Selected participants 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.

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 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. The initial appointment period will be for one year, with the possibility to extend the appoint for a second year at discretion of the mentor and sponsoring office.

Qualifications

- Be currently pursuing or have completed requirements for a Master's or Doctoral degree, or have completed all requirements for the degree by the anticipated start date of the appointment.
- Be a U.S. Citizen and Lawful Permanent Resident (LPR)

Program eligibility requirements can be found

at: <https://www.energy.gov/eere/education/energy-efficiency-and-renewable-energy-science->

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[technology-and-policy-program](#)

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)
- 1 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.
- **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.ornl.gov and list the reference code [DOE-EERE-STP-VTO-2023-1301] 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** ([12](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([10](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([6](#))
 - **Life Health and Medical Sciences** ([11](#))
 - **Mathematics and Statistics** ([11](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([1](#))
- **Age:** Must be 18 years of age