

Opportunity Title: Water Power Technologies: Alaska Embedded Fellowship

Opportunity Reference Code: DOE-EERE-STP-WPTO-2024-3000

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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Application Deadline 9/20/2024 11:59:00 PM Eastern Time Zone

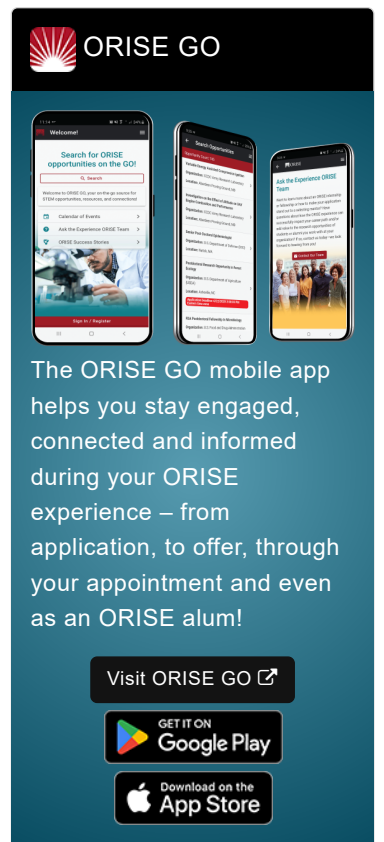
Description **The deadline for this opportunity is Friday, September 20, 2024. All recommendations must be received by Sunday, September 22, 2024 for your application to be considered.**

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 Water Power Technologies Office (WPTO) is seeking a Fellow to engage with the DOE's Arctic Energy Office in Alaska. The Fellow will, by being embedded in the state of Alaska (either Anchorage or Fairbanks) learn how the Water Power Technologies Office (WPTO) and Arctic Energy Office carry out their work on water-power related topics within the state of Alaska. The Fellow will also gain hands-on experience by applying their knowledge within specific fields of expertise aligned with the Offices' work areas, especially as it pertains to Alaska energy issues and needs. This will include engaging in both marine (tidal and riverine hydrokinetic) technologies, as well as conventional hydropower. WPTO carries out early-stage research and development to advance the U.S. hydropower fleet and new marine energy technologies, as well as works to facilitate the development and deployment of new technologies and project operational strategies with respect to water power's contributions to a clean energy economy in an environmentally-sound and cost-effective way through focused research and development, stakeholder collaboration, and funding opportunities. **This Fellowship will last one year, with the opportunity to renew for additional years at the discretion of the sponsoring office.**

Under guidance of a mentor, learning opportunities and professional development activities may include:

- Learning to collaborate in a dynamic team setting to understand key technological, ecological, regulatory and socio-economic issues and best practices for environmentally sustainable water power technologies development;
- Participating in research necessary to understand water power's role in the evolution of the Alaska electric grid, the capability and constraints



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associated with that role, and identifying the new technologies necessary to ensure that water power provides the necessary future grid services

- Learning to identify local stakeholders and rights-holders including relevant environmental agencies, as well as grid and non-grid activities that may present a barrier or opportunity for marine energy integration
- Learning how to map community engagement organizations that would help Alaskans learn about marine energies and their uses
- Learning how to identify best potential Alaska communities that would be interested in exploring marine energy, hydrokinetic, hydropower, and pumped storage hydro solutions in the future
- Interacting with local Alaska communities, including tribal entities, as well as with industry, owners, operators and other power providers, and environmental groups to understand how these groups determine their highest priorities for future research
- Observing, interacting with, and analyzing activities of the other DOE renewable energy technology offices and other federal agencies, state and local governments, and other non-governmental organizations with equities in Alaska energy issues
- Participating in the creation and learning how to manage an engineering field-research program for marine energy technologies

It is expected that the selected Fellow will reside in Alaska for the duration of the Fellowship in order to fully embed with the state and its local communities, and to interact with Alaska energy stakeholders on a regular basis. Travel to Washington, D.C. and Golden, CO, as well as travel to relevant conferences, may be required.

Stipend and Benefits

WPTO offers a competitive monthly stipend for participation in this program determined on an individual basis. This Fellowship also offers a range of additional benefits including: medical, dental, and vision insurance, and Federal holidays. Relocation expenses incurred in relocating from current address to Alaska will be reimbursed in a one-time, lump sum payment of \$7,500 (if host facility more than 50 miles from the address shown on the application). Fellows will also receive a travel and research allowance of \$10,000 per appointment year to cover expenses for scientific and professional development activities. Fellows may be offered an extension for additional years with an increase in stipend and cost of living adjustment. Past Fellows have gone on to take a wide range of permanent positions in industry, academia, and government.

For more information about DOE's Arctic Energy Office, please visit

<https://www.energy.gov/arctic/about-arctic-energy-office>.

Appointment Start Date

An exact start date will be determined at the time of selection and in coordination with the selected applicant.

Appointment Location

Anchorage, AK or Fairbanks, AK

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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 Fellow 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 additional years at discretion of the mentor and sponsoring office.

Qualifications To be eligible for this opportunity, applicants must:

- Be currently pursuing, or have completed requirements, for a Bachelor's degree, Master's, or Doctoral degree.
- Be a U.S. Citizen or Lawful Permanent Resident of the United States (LPR).

Desired candidate qualifications are:

- Knowledge of or experience in or with Alaska energy issues, policies, or organizations.
- Understanding of advanced concepts, principles, and practices of energy efficiency and renewable energy systems and technologies in the assigned program area.
- Expert knowledge of energy technologies in order to recognize realistic opportunities for renewable energy efficiency or alternative energy technologies based on practical considerations and cost/benefit potentials.
- Extensive knowledge of the Energy Policy Act of 1992; National Energy Conservation Policy Act; Title IV, Part B of the Energy Conservation and Production Act; Energy Policy and Conservation Act; Energy Security Act; and the DOE Financial Assistance Regulations.
- Knowledge of policy analysis and evaluation.
- Knowledge of the principles, methods, practices and techniques of marketing and communication.
- Knowledge of Federal and departmental goals, policy, programs, projects, and efforts related to assigned program areas.
- Ability to communicate effectively with individuals and groups at all levels, both orally and in writing.

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 candidates will be required to provide proof of completion of the degree before start of appointment.
- 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.

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- **Work & Research Experience:** List all relevant 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.ora.gov and list the reference code [DOE-EERE-STP-WPTO-2024-3000] 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** ([1](#))
 - **Earth and Geosciences** ([3](#))
 - **Engineering** ([14](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Other Non-Science & Engineering** ([2](#))
 - **Social and Behavioral Sciences** ([5](#))
 - **Age:** Must be 18 years of age