Opportunity Title: Postdoctoral Opportunity in Fuel Cell Research
Opportunity Reference Code: EERE-RPP-FCT-1804

Organization U.S. Department of Energy (DOE)

Reference Code EERE-RPP-FCT-1804

How to Apply A complete application consists of:

- An application
- A current Resume/CV
- 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 must provide proof of completion of the degree before the appointment can start. Proof must be sent to ORISE directly from the academic institution including graduation date and degree awarded.

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

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

Description The Fuel Cell Technologies Office (FCTO), situated within DOE's Office of Energy Efficiency and Renewable Energy (EERE), addresses the full range of barriers facing the development and deployment of innovative hydrogen and fuel cell technologies by conducting applied research, technology development and learning demonstrations, as well as safety research, systems analysis, early market deployments, manufacturing, and public outreach and education activities.

A successful candidate would be responsible for assisting in research, development, demonstration, and analysis activities within the Fuel Cells program. The position deals principally with the technical area of polymer electrolyte membrane fuel cells, but program efforts also include other types of fuel cells, including alkaline membrane and high-temperature fuel cells such as molten carbonate fuel cells.

The candidate should have knowledge of advanced concepts, theories, principles, practices, methods, and techniques of interdisciplinary physical science and engineering practices relevant to fuel cell technologies and the manufacturing of fuel cells and fuel cell systems.

For additional information about the Fuel Cell Technologies Office, please visit: http://energy.gov/eere/fuelcells/fuel-cell-technologies-office

This appointment is located in Washington, D.C.

Participant Benefits

The selected candidate will receive a stipend as support for living and other expenses during this appointment. Stipend rates are determined by DOE EERE officials and are based on the candidate's academic and professional background. The candidate may also be eligible to receive a health insurance allowance and reimbursement for travel expenses. This appointment is for one year and may be extended in increments of up to

one year, contingent upon project needs and funding availability. The maximum length of time a participant can spend in the ORISE program is five years from his/her initial start date.

Nature of the Appointment

Participants 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.

This is an equal opportunity program open to all qualified individuals without regard to race, color, age, sex, religion, national origin, mental or physical disability, generic information, sexual orientation, or covered veteran's status.

Qualifications

- Knowledge of advanced concepts, theories, principles, practices, methods, and techniques of interdisciplinary physical, chemical, and engineering practices relevant to fuel cells and fuel cell systems, such as physical chemistry, electrochemistry, materials science, design engineering and thermodynamics.
- Knowledge or broad background in various scientific and environmental fields as they relate to fuel cell R&D, including chemical, electrochemical, and materials science-related concepts such as catalysts, electrolytes, corrosion, theoretical modeling, and advanced characterization techniques.
- Knowledge of the state of the art related to fuel cell technologies, and a clear understanding of required materials and technologies to advance fuel cells for power generation.
- Skill in written and oral communication techniques.
- A PhD in the physical sciences or in engineering, such as chemistry, physics, materials science, chemical or mechanical engineering, or a related area is required.

Candidates with several years of post-doctoral or industrial experience in relevant fuel cell research and development that includes polymer electrolyte membrane fuel cells and/or alkaline membrane fuel cells will be given preference.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (3 👁)
  - **Communications and Graphics Design** (2 👁)
  - **Engineering** (5 👁)
  - **Physics** (3 👁)
  - **Science & Engineering-related** (1 👁)