

**Opportunity Title:** DOE Scholars Program - 2019 ARPA-E Technology-to-Market

**Opportunity Reference Code:** Scholars-2019-ARPA-E

**Organization** U.S. Department of Energy (DOE)

**Reference Code** Scholars-2019-ARPA-E

**How to Apply** Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences and skills relevant to the ARPA-E)
- Resume (pdf)
- Academic records - For this opportunity, an unofficial transcript or copy of the academic records may be submitted. Selected candidate must provide proof of enrollment in an academic program or completion of the degree before the appointment can start

All documents must be submitted via Zintellect. All application components **must** be received in the system in order to be considered.

**Description** The DOE Scholars Program offers unique opportunities that introduce students to the mission and operations of U.S. Department of Energy (DOE) Advanced Research Projects Agency–Energy (ARPA-E). ARPA-E is devoted exclusively to research and development of transformational energy technologies. ARPA-E recruits Technology-to-Market Scholars who have a unique combination of technical and business skills to participate in projects focused in defining commercialization pathways for high-impact technology development programs. This internship opportunity offers experience in advancing the transition of cutting-edge energy technologies to market applications in a fast-paced environment. Scholars will be mentored by Technology-to-Market professionals on program efforts in one or more topical areas. More details on the breadth of topic areas of importance to ARPA-E can be found at <https://arpa-e.energy.gov/?q=program-listing>.

As examples of potential internship scope, past summer scholar projects have included:

- Developing a cost model to begin assessing projected capital costs for a fusion-based power plant
- Mapping the industrial process heat market to understand addressable applications, players, requirements, and market entry strategy
- Performing a survey of market drivers for global methane monitoring
- Assessing costs and opportunities for industrial carbon capture utilization and storage (CCUS) and research into the impact of new utility/grid technologies that enable higher levels of electrification including storage, medium voltage DC distribution, as well as distributed energy resources such as solar, wind and micro-grids.

#### **Stipends**

The DOE Scholars program provides stipends starting at \$650 per week for graduate students and post graduates.

#### **Travel**

Inbound and outbound travel may be provided according to ORISE Travel Policies and the policies of the sponsoring federal agency.

#### **Length of Appointment**

Appointments duration typically ranges from 8-12 weeks but other appointments periods may be possible.

#### **Additional Information**

For more information on the DOE Scholars Program, visit <https://orise.ornl.gov/doescholars> or contact us at [doescholars@ornl.org](mailto:doescholars@ornl.org).

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**Qualifications** This opportunity is open to graduate students, and recent graduates who meet the following qualifications:

- Be a U.S. Citizen at the time of application
- Be 16 years of age or older at the time of application

The ideal candidates will have or be pursuing a graduate level degree (preferably MBA or technical degree M.S./Ph.D. with a business focus), and have relevant experience in the field. Applicants should be prepared for deep immersion in a specific energy program area and must be comfortable be able to complete tasks independently. Candidate must have strong written and oral communication abilities, as well as an interest in energy and energy technologies.

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Business** (11 )
  - **Earth and Geosciences** (23 )
  - **Engineering** (27 )
  - **Life Health and Medical Sciences** (47 )
  - **Other Physical Sciences** (12 )
  - **Physics** (16 )
- **Age:** Must be 16 years of age