Opportunity Title: 2022 DOE Scholars - Summer Internships - ARPA-E Technology-to-Market
Opportunity Reference Code: DOE-Scholars-2022-ARPA-E

Organization U.S. Department of Energy (DOE)

Reference Code DOE-Scholars-2022-ARPA-E

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

Application Deadline 5/31/2022 11:59:00 PM Eastern Time Zone

Description **"If it works, will it matter?"** **Apply now to help find the answer.**

This is the question behind all the U.S. Department of Energy (DOE) Advanced Research Projects Agency–Energy (ARPA-E) programs.

ARPA-E recruits summer scholars who have a unique combination of technical and business skills to assist 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.

ARPA-E's Summer Scholars Program is designed to prepare ARPA-E funded technologies to achieve maximum impact and return on investment for ARPA-E project teams, stakeholders, and our Nation's taxpayers. This internship provides a unique opportunity to be mentored by and interface with the ARPA-E Technology-to-Market team, the ARPA-E Program Directors, and ARPA-E Fellows.

We are seeking graduate students and recent graduates interested in:

- Researching market trends, cross-industry collaboration opportunities, and go-to-market strategies.
- Assisting in developing techno-economic analysis.
- Performing stakeholder analysis to identify technology adopters and laggards.
- Analyzing system reliability at varying levels or renewable penetration.

Previous internship projects included:

- Identifying Technology Pathways for Zero Carbon Aviation
- Sustainable Pathway for Fusion Commercialization
- Developing a Framework to Evaluate Energy Storage and Conversion Technologies that Rely on Low-cost Renewable Power
- Managing the Risks of Stochastic Grid Resources to Optimize Reliability
- Leveraging Soil Carbon Markets to Drive Innovation, Carbon Removal and Management in Agricultural Systems
- Emissions Analyses Across the Bioeconomy: Carbon Sequestration and Mitigation Potentials for Biofuels
- L4 Connected Autonomous Market Assessment
- Greenhouse Gas Impacts Modeling
- Future Markets and Current Economics for Renewable Hydrogen

The Advanced Research Projects Agency-Energy (ARPA-E) is an agency within the U.S. Department of Energy that funds creative, out-of-the-box,

transformational energy technologies that are too early stage for private investment. ARPA-E programs provide top energy researchers with funding, technical assistance, and tech-to-market guidance to radically improve U.S. energy security, energy efficiency, and environmental well-being. For more information about ARPA-E visit https://arpa-e.energy.gov/.

Stipends

The DOE Scholars Program provides stipends starting at $1,000 per week for graduate students and recent graduates. In addition, ARPA-E will provide up to $400 per week to cover housing expenses.

Travel

Travel reimbursement of inbound and outbound costs up to $1,000 for participants who live more than fifty miles, one-way, from the assigned hosting site.

Length of Appointment

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

A complete application consists of:

- Profile Information
- Essay Questions (goals, experiences, and skills relevant to the DOE Scholars Program)
- Resume (PDF)
- Transcripts/Academic Records - Unofficial transcripts or copies of the student academic records printed by the applicant or by academic advisors from internal institutional systems may be submitted. Transcripts/Academic Records must include name of the academic institution, name of the student, completed/in progress coursework and grades through summer 2021. Transcripts/Academic Records must show the equivalent of at least one year of full-time postsecondary school attendance prior to Fall 2021. First-year undergraduate students must include completed/in progress coursework through Fall 2021. First-year graduate students must submit their undergraduate transcript, including the last two years of courses, degree, and date degree was awarded. Documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.
- Recommendation - Recommendations should address your academic record and potential for success in an appointment, such as demonstrated intellectual merit, communication and teamwork skills. **Letter must be submitted via Zintellect by Thursday, March 31, 2022, 11:59 P.M. Eastern Time Zone.**

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

Opportunity Title: 2022 DOE Scholars - Summer Internships - ARPA-E Technology-to-Market
Opportunity Reference Code: DOE-Scholars-2022-ARPA-E

Additional Information

For more information on the DOE Scholars Program, visit https://orise.orau.gov/doescholars or contact us at doescholars@orise.orau.gov.

The DOE Scholars Program offers multiple opportunities during the year to accommodate the needs and schedule of individual sponsoring offices. Opportunities may have different eligibility requirements, benefits and deadlines. To be considered you must apply to each opportunity individually.

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 18 years of age or older by the application deadline.
- Have a completed a bachelor's degree in a relevant field (e.g. electrical engineering, physics, material science, agriculture, economics, computer science, etc.) or be in the midst of completing a graduate level degree, preferably M.S. or MBA.

The ideal candidate will have relevant knowledge, experience and skills to include:

- Experience with techno-economic and/or lifecycle analysis
- Knowledge of energy market concepts and operations
- Experience in data mining, statistics and visualization (preferred)
- Strong written and oral communication abilities
- Strong analytical skills

Applicants should be prepared for deep immersion into the project and must be comfortable completing tasks independently.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Business** (10)
  - **Chemistry and Materials Sciences** (12)
  - **Computer, Information, and Data Sciences** (17)
  - **Earth and Geosciences** (21)
  - **Engineering** (27)
  - **Environmental and Marine Sciences** (14)
  - **Life Health and Medical Sciences** (45)
  - **Mathematics and Statistics** (10)
  - **Physics** (16)
- **Age:** Must be 18 years old by 1/31/2022