

**Opportunity Title:** Cyclotron Road Applied Research Experiences **Opportunity Reference Code:** DOE-EERE-RPP-AMO-2017-1218

Organization U.S. Department of Energy (DOE)

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How to Apply 1. Review program description and eligibility requirements: <u>http://www.cyclotronroad.org/applied-research-fellows</u>

2. Review project opportunties listed in the program website. Applicants are encouraged to contact the Project Leads for specific opportunities to indicate their interest in applying.

3. <u>Click here</u>\* to submit an application for up to three specific project opportunities of interest

\*By clicking on the link above you will be directed to a form to submit your application. If you encounter any problems with this form, or have questions about the application process, please email beth [at] cyclotronroad [dot] org.

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

- **Description** The Cyclotron Road Applied Research Fellowship Program provides a mentored opportunity for pre-doctoral scientists and engineers to apply their education in support of a commercially oriented R&D project. Through participation in this program, participants will:
  - Work directly on a mentored R&D project with one of our third cohort of companies.
  - Apply their scientific and engineering expertise to help solve critical technical development challenges identified by Cyclotron Road projects.
  - Gain deep insight into applied R&D and technology commercialization through educational programming and hands-on experience.
  - Help develop innovative technologies that have the potential to positively impact the US economy, environment, and society.

# **Project Opportunities**

- 1. Astrileux Next generation semiconductors
- 2. Dauntless Machine learning for Energy Applications
- 3. Helux Redefining illumination
- 4. Laminera Ultrathin conformal synthetic metals
- 5. Marigold Thermophotovoltaics for a distributed power future
- 6. Microbyre Making pets out of bacteria
- 7. Nelumbo Coatings to stop ice formation on heat exchangers
- 8. Photia Holographic lithography for industrial nanomanufacturing
- 9. Treau Thermodynamic things for building heating and cooling

Please visit <u>http://www.cyclotronroad.org/applied-research-fellows</u> for more information.

## **Stipend and Benefits**

Selected participants will receive a stipend as support for their living and

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other expenses during this appointment. Stipend rates are determined by DOE officials and are based on the candidate's academic and professional background. Participants will also be eligible to receive a health insurance allowance and reimbursement for travel expenses. Because this is an educational fellowship, the stipend includes an allowance for conference attendance and travel.

## **Appointment Location**

This appointment is located at Lawrence Berkeley National Laboratory in Berkeley, CA.

# Start Date and Term Length

Selected participants will be working as affiliates at Lawrence Berkeley Lab. Fellows are expected to begin their appointment in early September 2017. Slight adjustments to the start date may be considered on a case by case basis. Appointments are for exactly one year from the start date.

# Nature of the Appointment

Participants 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 appointment letter and Terms of Appointment.

APPLICATIONS WILL BE REVIEWED ON A ROLLING BASIS BEGINNING MONDAY, APRIL 16TH. PARTICIPANTS ARE EXPECTED TO BEGIN THEIR APPOINTMENTS IN EARLY SEPTEMBER 2017.

This program is administered by the Oak Ridge Institute for Science and Education (ORISE) in collaboration with the Office of Energy Efficiency and Renewable Energy's Advanced Manufacturing Office. Participants will become administratively associated with Oak Ridge Institute for Science and Education (ORISE) through a signed letter of appointment.

# **Qualifications Eligibility requirements:**

- Bachelor's or Master's degree held for less than five years in a field of science, engineering, or other highly quantitative field such as mathematics.
- Be a U.S. citizen or have Permanent Resident (Green Card) status, if a foreign national.
- Post-doctoral candidates are not eligible for this program

### Ideal candidates will:

- Have shown superior academic performance
- Have a strong technical background and practical experience working in a lab
- Enjoy challenging conventional wisdom to seek innovative solutions
- Think independently from first principles to solve difficult problems
- Have strong analytical, research and communication skills (oral and written)



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- Thrive in a fast-paced startup environment by readily adapting to changing needs
- Work well in a collaborative, multi-disciplinary team
- Be interested in translating research into a commercial product
- Have a passion for making a positive impact in global energy use

Eligibility Requirements

- Citizenship: LPR or U.S. Citizen
  - **Degree:** Bachelor's Degree or Master's Degree received within the last 60 month(s).
  - Discipline(s):
    - Chemistry and Materials Sciences (<u>12</u>)
    - Engineering (<u>27</u>.
    - Physics (<u>16</u> <sup>●</sup>)
    - Science & Engineering-related (1.)