



**Innovation Partnership Building  
University of Connecticut Campus  
159 Discovery Drive  
Storrs, Connecticut 06269**

# Eversource Energy Center Pioneering Diversity Internship

EEC is creating a scholarship opportunity to engage underrepresented minority undergraduate students in the energy sector by providing \$2,600 in each of the following: Spring, Summer and Fall 2021 to work on the Center's research projects.

Established in 2015 by the University of Connecticut (UConn) the Eversource Energy Center (EEC) has been advancing leading-edge interdisciplinary research and technology assuring reliable power during extreme weather and security events. We have done this through a variety of research projects in the following areas:

## Internship

### REQUIREMENTS:

1. Pursuing an undergraduate degree in Engineering, Sciences or Business.
2. Being in Sophomore or Junior year maintaining a GPA greater than 2.3.
3. Must be willing to dedicate 10 hours per week to research during the semester and 20 hours per week during the summer.

### APPLICATION PROCESS:

- Personal statement indicating the thematic area of interest and any experience you have had in research.
- Unofficial transcripts
- Name of a faculty member or collaborator for reference

### APPLY HERE:

<https://forms.gle/xqWpVGsFRavCRrA9>

**Power Outages** – Predicting weather-related power outages and restoration through data analytics.

**Weather Prediction** – Assess and improve forecasting of severe storms to support prediction of power outages.

**Vegetation Management** – Reducing the risk of tree-related storm damage to the power grid infrastructure.

**Wildfires** – Modeling the occurrence and propagation of wildfires through data analytics.

**Irrigation** – Using remote sensing data and weather predictions to reduce water usage.

**Floods** – Assessing the flood inundation risk for power grid infrastructure using flood simulations.

**Biodiversity** – Using statistical methods to forecast biodiversity response to climate and environmental pressures.

**Renewables** – Modeling scenarios of renewable energy sources integration in the electric grid of the future.

**Wind Energy** – Studying offshore wind generation through weather data analytics.

**Remote Sensing** – Use of remote sensing techniques for infrastructure mapping and land cover disturbance.

**Structural** – Studying infrastructure fragility curves.

**Resilience** – Studying the vulnerability and resilience of the electrical grid to weather events in a changing climate.

**Economics** – Evaluating economic benefits of power grid reinforcement and modernization to residents, utilities, and the state.

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