

## Bonneville Power Administration – Transmission Services & American Indian Science and Engineering Society Summer Internship Program

Engineering (Electrical, Civil, and Mechanical)

**Deadline: March 14, 2022**

The Bonneville Power Administration's high voltage transmission lines help deliver the Northwest's power. Throughout the region, BPA's Transmission Services operates over 15,000 circuit miles of high voltage lines. That's about 75 percent of the high voltage grid in the Northwest.

During the AISES Summer Internship Program in BPA's Transmission Services, student interns will assist senior engineers working on drawings, performing planning functions, design, testing equipment, participating in field visits and other activities related to project development.

The three primary fields of engineering at BPA include:

### Electrical Engineering

Depending on the specific placement of the student intern, students may be involved with communication equipment, substation equipment, line design, and other electrical engineering related systems. Activities may include:

- Developing schematic and wiring drawings
- Testing electronic equipment such as relays, telecom gear, breakers, transformers and other supporting ancillary equipment
- Gathering data for equipment performance reports
- Field visits may be required to substations, radio sites, and generation plants

### Civil Engineering

Depending on the specific placement of the student intern, students may be involved with communication equipment, substation equipment, line design, and other civil/structural engineering related systems. Activities may include:

- Support for transmission line placement
- Substation layout, drainage, footings, etc.
- Access Road design/review
- Field visits may be required to substations, radio sites, and generation plants



## **Mechanical Engineering**

Depending on the specific placement of the student intern, students may be involved with substation equipment, line design, and other mechanical engineering related systems. Activities may include:

- Transmission line design
- Tower design
- HVAC related items for facilities
- Field visits may be required to substations, radio sites, and generation plants

## **Internship dates/location**

The Summer Internship is for ten weeks from May through September and is located in Vancouver, Washington (across the Columbia River from Portland, Oregon).

## **Intern is provided the following:**

- Round-trip airfare or mileage to internship site
- Lodging
- Weekly living stipend
- Weekly local transportation stipend

## **How to apply**

To apply for the AISES Summer Internship program at BPA, please visit the AISES website at [www.aises.org/scholarships/internships](http://www.aises.org/scholarships/internships).



*Like a highway interchange for electrons, substations route electricity to the right place and help keep it moving to the consumer*