Substation Technician

Substation Technicians are individuals who work with an electrical engineer’s design to layout, construct, and maintain a substation. Substations are used to collect power at a generation site, connect to a transmission “grid,” and download energy to a distribution network where the power is regulated to the consumer. This highly skilled individual may work outdoors in the substation or in climate-controlled facilities to help maintain a balanced grid system, electronically known as the “smart grid.” In conjunction with hands-on experience in construction, you will be challenged to diagnose problems, outages, and other issues associated with a substation. Theory and lab courses will cover single and three phase metering, transformers, complex relaying, regulators, capacitors, distribution concepts, and other subjects related to this field. Many skills learned will also transfer into other positions related to this field.

Where will I get a JOB?

Graduates of the Substation program are in demand by electrical utilities, rural electric cooperatives, municipalities, and construction companies. The employment opportunities for substation technicians are excellent across the country, and those applicants with formal training typically have higher starting salaries and greater opportunity for advancement within the industry.

How much $ will I make?

Average starting salary is around $22/hour.

What kind of classes will I take?

Class time will be about one-third lecture, one-third lab, and one-third field/outside time.

What’s UNIQUE about this program?

One-of-a-kind program in Iowa...
a combination of Electrical, Electronics and Powerline.