

Now Enrolling!

ENERGY & POWER





THE PROGRAM

The Energy and Power Program incorporates hands-on projects to understand the interplay of the generation, distribution and use of energy and was designed as a result of increasing workforce demands in the energy and power sector within the Meridian district and across the nation.

A recent U.S. Energy and Employment Report estimates the energy and power sector employs nearly 93,000 energy workers in Oklahoma, and the state's Oklahoma Works initiative estimates the energy ecosystem will experience a 16 percent job growth by 2025.

ENERGY & POWER PROJECTS

Students will work in small groups to research, design, build and evaluate their solutions to the problems they are presented. They will collect and analyze data, study and modify their prototypes, and practice project management while learning how to work and collaborate in a team environment. Projects will explore the following:

Motors and Generators Improve the efficiency of an electric motor.

Hydroelectric Power Design a mini-hydroelectric system for homes and farms.

Hydraulics Design a hydraulic system that will lift coal into a power plant.

Plant Cooling (Heat Exchange) Develop a method for reducing the amount of heat contained in flowing water.

Solar Panel Design and Manufacturing Develop a simplified solar technology and assembly process to increase its potential use by underdeveloped countries.

Solar Water Heater Design a device to use heat from the sun to heat water in homes.

Power Distribution Design a system to transmit electricity to a new housing development.

Circuit Breakers and Fuses Develop a system to protect a transformer.

Distributed Generation Determine if an off-grid or an on-grid renewable power system is better.

WHERE IT CAN TAKE YOU

- Apprentice Lineman
- Control Room Operator
- Energy Auditor
- Industrial Maintenance
- Power Plant Operator
- Robotic Automation

THE DETAILS

The Energy and Power Program offers a one- or two-year track. Students will be prepared to go directly to work or to pursue further education.

High School students who live in the district attend a half day and may enroll as juniors or seniors at no cost. Sophomores can enroll in afternoon programs when space is available. Depending on their high school, students earn 3 or 4 credits per year. Some of these credits count as electives, some count as academic credits.

Adult students who live in the district may attend a half or full day and pay \$3 per credit hour. Transportation is provided from district high schools. Adults needing transportation need written approval from the sending school superintendent and Meridian's director of instruction.

Morning classes meet from 7:50 – 10:40 a.m. and afternoon classes are held from 12:45 – 3:35 p.m.



GET STARTED & ENROLL NOW!

For full program details visit
meridiantech.edu/EnergyAndPower



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