

ENERGY TECHNOLOGIES

Offers an option for students to build a career in the energy field. The degree incorporates multiple tracks for certificates associated with different energy careers, allowing students to match their strengths and interests with an appropriate plan of study. It is focused on preparing graduates to enter the workforce in positions such as an entry-level utility apprentice, line maintenance technician, transformer/relay technician, fiber optic technician, outside plant fiber optic technician, network communications technician, voice and data wiring technician, or renewable energy and energy efficiency specialist. The degree provides a broad foundation across many facets of utility and communications technologies, resulting in a multi-skilled technician valued by the workforce. Hands-on instruction is used to teach students aspects of smart grid technology, fiber optics installation, utility operation, line maintenance, underground operations, substation operations, transmission distribution, solar/photovoltaic systems installation, design and placement of wind energy systems, energy efficiency analysis, electrical energy efficiency control technologies, and job safety. The technical certificate tracks are complemented by an operations management certificate, which provides background knowledge of business operations.

Degrees

- Energy Technologies - AAS (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/energy-technologies-aas/>)

Certificates

- Energy Efficiency and Analysis - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/energy-efficiency-analysis-certificate/>)
- Energy Efficiency Electrical Controls Technician - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/energy-efficiency-electrical-controls-technician-certificate/>)
- Energy Utility Technician - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/energy-utility-technician-certificate/>)
- Outside Plant Technician - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/outside-plant-technician-certificate/>)
- Solar/Photovoltaic Technologies - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/solarphotovoltaic-technologies-certificate/>)
- Utility Lineworker - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/utility-lineworker-certificate/>)
- Wind System Technologies - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/energy-technologies/wind-system-technologies-certificate/>)