

ENERGY SERVICES & RENEWABLE TECHNICIAN

ON-CAMPUS • ASSOCIATE OF APPLIED SCIENCE



BISMARCK | North Dakota's
STATE COLLEGE | Polytechnic Institution



Wind Service Turbine Technicians have the fastest growing career projections in North Dakota and nationally, with an increase in employment of up to 100% projected by 2026. This program is only offered on campus.

CAREER opportunities

- Generator Technician
- Enterprise Technician
- Facility Technician
- Pipeline Technician
- Wind Technician
- Renewable Energy Technician
- Maintenance Technician
- Field Technician
- Combined/Simple Cycle Plant Operator/Technician
- Solar Installation and Maintenance Technician
- Hydroelectric Plant Operator/Technician

HANDS-ON LEARNING. WORKFORCE READY.

BSC's 2-year Energy Services & Renewable Technician program prepares individuals for field service technical careers in the rapidly expanding energy industry.

The expansion and changes in the energy industry and the service industries that support it make it a great time to change your future! The Energy Services and the Renewable Technician program at BSC can give you the skills needed to work in this growing industry. The specific skill sets required by these industries include mechanical, electrical, efficient operations and troubleshooting. Coursework emphasizes theory and hands-on applications of applied electronics, mechanics, hydraulics, electric motor control, programmable logic controllers (PLCs), SCADA systems, wind turbine systems, solar photovoltaic systems and safe work practices. Using experiential learning, you will gain experience and real world skills to secure their future in this industry.

PRESCRIBED TECHNICAL AAS PROGRAM REQUIREMENTS

ESRE 210	Electrical and Safe Work Practices
ESRE 216	Mechanical Drive Systems
ESRE 213	Hydraulic Fundamentals
ESRE 218	Distributed Power Systems
ENRT 224	Automation and Control
ENRT 221	Applied Electronics
ESRE 226	Analog PLCs
ESRE 228	Technician Applications & Troubleshooting
ENRT 118	Heat Transfer, Fluid Flow & Thermodynamics
ENRT 105	Safety, Health and Environment
ENRT 107	Mechanical Fundamentals
ENRT 110	Plant Equipment and Systems
ENRT 112	Print Reading
ENRT 240	Industrial SCADA
PWRP 224	Power Generation Components and Protection
ENRT 116	Instrumentations and Control

**Program also includes required general education classes*



**STRONG
JOB MARKET**



**\$81K
MEDIAN
SALARY**



**EARN INDUSTRY
QUALIFICATIONS**

bismarckstate.edu

*Earning estimates were provided by Lightcast in the summer of 2024

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