



ENERGY SERVICES AND RENEWABLE TECHNICIAN (ESRE)

Be Prepared to Enter the Fastest Growing Energy Sector



There are many opportunities within the ESRE program:

- Complete a Certificate or Associate of Applied Science Degree in ESRE
- Flexible to fit your schedule
- Take a single course or complete a certificate or degree
- Qualified instructor-led and industry-approved
- Access to cutting edge learning tools



Education to Begin Your Career:

- Be prepared for careers in wind farms, solar fields, or in industries using automation
- Classes available online or on campus
- Interactive industry approved online education
- State of the art labs and on-campus training equipment



Enhance Your Company Training:

- Leverage individual courses in training programs
- Individual college courses for professional development
- Accelerate development from within
- Standardize across regional/national footprint
- Align to your tuition reimbursement program
- Content developed for industry use



Benefits to Enrolling:

- Online/hands-on training
- Fully accredited
- Completely transferable
- Credit for your experience
- Start any time
- Pathway towards Bachelors of Applied Science in Energy Management



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Want to be a part of the transformation of the nation's energy system?

The continued growth of the renewable energy sector requires knowledgeable and skilled workers prepared to work in solar fields, wind farms, and other areas of green energy. The Energy Services and Renewable Technician (ESRE) program at Bismarck State College prepares individuals for field service technical careers in renewable generation or industrial and manufacturing sectors. Individuals receive a broad background in energy production, electrical and mechanical fundamentals, equipment and systems, applied math, and safety practices.

Courses are taught in a block style format. Coursework during the first year of the program requires on-campus lab activities or job shadowing at an approved facility; travel to the NECE located in Bismarck may be required. Coursework during the second year of the program can be completed entirely online.

Discover additional programs at:

bismarckstate.edu/energy/programs/

- BAS in Energy Management
- Electric Power Technology
- Electrical Transmission Systems Technology
- Instrumentation & Control Technology
- Lineworker (Electrical)
- Mechanical Maintenance Technology
- Nuclear Power Technology
- Petroleum Production Technology
- Power Plant Technology
- Process Plant Technology
- Water & Wastewater Technology



CORE CLASSES

- ESRE 210** Electrical & Safe Work Practices
- ESRE 216** Mechanical Drive Systems
- ESRE 213** Hydraulic Fundamentals
- ESRE 218** Solar & Distributed Grid Systems
- ESRE 224** Automation & Control
- ESRE 221** Applied Electronics
- ESRE 226** Commercial Wind Systems
- ESRE 228** Energy Technician Applications & Troubleshooting
- ENRT 122** Industrial Composition & Communication
- ENRT 105** Safety, Health & Environment
- ENRT 107** Mechanical Fundamentals
- ENRT 110** Plant Equipment & Systems
- ENRT 112** Print Reading
- ENRT 103** Applied Math
- PWRP 224** Power Generation Components & Protection
- ENRT 116** Instrumentation & Control

Prospective students should be prepared for the physical demands of the work associated with technician positions when considering this program. Typical industry entry-level position requirements include passing a physical exam, which may include: lifting 50+ pounds, climbing ladders, working in confined spaces, working at elevated heights, etc. When applying for jobs applicants may also be required to pass a drug screen and an eye exam, including the ability to distinguish between colors accurately.

Bismarck State College has been a leading provider of energy education for more than 45 years. With a dozen degree and certificate offerings in a variety of energy-related programs, the college prepares graduates with the skills and education they need for successful, life-long career opportunities in the industry.

Learn more at bismarckstate.edu/energy • bsc.energy@bismarckstate.edu • 701.224.5651 or 800.852.5685.