

NUCLEAR POWER TECHNOLOGY

ONLINE



Developed in collaboration with nuclear industry partners through the Energy Providers Coalition for Education (EPCE), BSC's Nuclear Power Technology program is approved by the Nuclear Energy Institute (NEI) as a Nuclear Uniform Curriculum Program (NUCP).

CAREER opportunities

- Nuclear Power Operator (non-licensed on licensed path)
- Nuclear Instrumentation & Control Technician
- Nuclear Power Operator/Technician
- Power Plant Operator
- Nuclear Technician

NATIONAL ENERGY CENTER OF EXCELLENCE

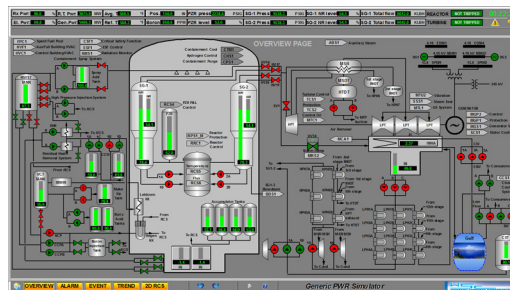
HANDS-ON LEARNING.

WORKFORCE READY.

BSC's online Nuclear Power Technology program prepares future nuclear power operators and instrumentation & control technicians. The program is also beneficial for non-technical nuclear employees who are striving to move into higher paid technical positions or looking to improve their knowledge and skills to better perform in their current position.

The online program is robust using interactive learning tools, mini-simulations, and a full-fidelity nuclear pressurized water reactor simulator. Students gain the fundamental skills and knowledge required to work in the industry as a non-licensed operator and/or instrumentation & control technician. In addition to a college degree, students can earn a National Academy for Nuclear Training Certificate developed through an agreement with Exelon and Bismarck State College. This certificate recognizes students who have successfully completed the high standards and requirements of the nuclear uniform curriculum program (NUCP) that is managed by the Nuclear Energy Institute (NEI). As a holder of this certification, students have the ability to by-pass fundamental training required for all new technical employees in a nuclear facility.

Students in the Nuclear Power Technology program use a Nuclear Pressurized Water Reactor (PWR) online simulator throughout the program.



Program developed in collaboration with the Energy Providers Coalition for Education (www.epceonline.org).



**STRONG
JOB MARKET**



**\$85K
AVERAGE
SALARY**



**NUCP
CERTIFICATION**

bismarckstate.edu

NUCLEAR POWER TECHNOLOGY

ONLINE



BISMARCK | North Dakota's
STATE COLLEGE | Polytechnic Institution



Core Classes

| | | |
|-----------|--|-----------|
| NUPT 101 | Overview of Nuclear Energy | 2 credits |
| *NUPT 103 | Nuclear Mathematics Fundamentals | 3 credits |
| *NUPT 105 | Classical Physics | 4 credits |
| NUPT 107 | Engineering Drawings, Diagrams, and Schematics | 3 credits |
| *NUPT 113 | Mechanical Science | 3 credits |
| *NUPT 215 | Nuclear Plant Chemistry | 3 credits |
| *NUPT 109 | Electrical Science | 4 credits |
| *NUPT 213 | Nuclear Physics | 3 credits |

Non-Licensed Operator (NLO) Track Courses:

| | | |
|-----------|--|-----------|
| *NUPT 217 | Heat Transfer, Fluid Flow, and Thermodynamics | 4 credits |
| *NUPT 111 | Instrumentation and Control | 4 credits |
| *NUPT 221 | Science of Radiological Protection | 3 credits |
| *NUPT 219 | Material Science | 3 credits |
| NUPT 220 | Reactor Theory | 2 credits |
| *NUPT 225 | Nuclear Plant System Component Design and Function | 4 credits |
| *NUPT 223 | Reactor Safety Design | 3 credits |
| NUPT 227 | Conduct of Facility Operations | 4 credits |

Instrumentation & Control (I&C) Track Courses:

| | | |
|-----------|--|-----------|
| ICTL 215 | Instrumentation Drawings & Documentation | 4 credits |
| *NUPT 217 | Heat Transfer, Fluid Flow, and Thermodynamics | 4 credits |
| *NUPT 111 | Instrumentation and Control | 4 credits |
| ICTL 225 | Input & Output Devices | 4 credits |
| ICTL 235 | Motors & Controllers | 4 credits |
| *NUPT 225 | Nuclear Plant System Component Design and Function | 4 credits |
| *NUPT 223 | Reactor Safety Design | 3 credits |
| *NUPT 229 | Instrumentation and Control II | 4 credits |

* Indicates NUCP criteria.

Discover the next version of you. Apply today!

 Virtual & in-person visits available at bismarckstate.edu/visit

 Call 701-224-5429

 Text 701-390-1075