



Personality + Career

You will be successful in the Energy Generation Operations program if you are a problem solver, like to think about the big picture and plan ahead. Students in our program do their job, so everyone else can do theirs. Much of the world relies on people within this career. Electricity, water treatment, wastewater treatment, nuclear, coal, farms, and many more careers await our graduates.

Program	Credential	What do students learn in the program?	What do students earn?	Career Opportunities	Are graduates prepared for/to complete exams for specific credentials/licensing/certifications at the end of the program (each credential level)?	Required Tools, Supplies, and Uniforms
Energy Generation Operations	Associate of Applied Science	In addition to the knowledge and skills noted below, students gain a more complete view of integrated operations, control room management of entire facility or an entire region, managing a power plant, an electric grid for a region or a state, or a wastewater treatment facility.	\$28.45 hourly; \$59,176 annually	Associate Distribution Operator Distribution Dispatcher Ethanol Operator Operator	EIF certification (test) Safety Training – OSHA 10 hour, forklift, Ladder/climbing safety, NUCP nuclear uniform curriculum program, POSS test Forklift Operation certification Prepares students to take the Nebraska Department of Environment & Energy (NDEE) Wastewater Operator certification Exam and Drinking Water Operator License Exam.	No uniform or tools required for this program.
Energy Generation Operations	Diploma	Students gain an understanding of the types of energy and their conversion to usable electrical power, industry safety procedures, nuclear energy, and green energy technologies, including wind, solar, hydro, and other renewable sources. Students then select electives based on their interest areas and career goals from options such as gas turbines, biofuels, industrial microbiology, and wastewater treatment systems and operations.	Salary data not available for diploma.	Entry-Level Operator Field Operator	EIF certification (test) Safety Training – OSHA 10 hour, forklift, Ladder/climbing safety Forklift Operation certification Prepares students to take the Nebraska Department of Environment & Energy (NDEE) Wastewater Operator certification Exam and Drinking Water Operator License Exam.	No uniform or tools required for this program.
Energy Generation Operations	Certificate	Students gain an understanding of the types of energy and their conversion to usable electrical power and industry procedures. Students select elective hours based on their interests from areas such as nuclear or green energies, gas turbines, biofuels, industrial microbiology, and wastewater treatment systems and operations.	Salary data not available for certificate.	Entry-level positions include: Material Handler Wastewater Treatment Technician Maintenance Staff	EIF certification (test) Safety Training – OSHA 10 hour, forklift, Ladder/climbing safety Forklift Operation certification Prepares students to take the Nebraska Department of Environment & Energy (NDEE) Wastewater Operator certification Exam and Drinking Water Operator License Exam.	No uniform or tools required for this program.

» Your Next Steps to Choose SCC

- ▶ Schedule a Campus Visit - southeast.edu/visit
- ▶ Explore career options with an Admissions Counselor - southeast.edu/admissionsadvising
- ▶ Apply - southeast.edu/applynow

» Paying for SCC

- ▶ Free Application for Federal Student Aid (FAFSA) - studentaid.gov/h/apply-for-aid/fafsa
- ▶ Scholarships - southeast.edu/scholarships
- ▶ Payment Plan - mycollegepaymentplan.com/southeast
- ▶ Veteran Education Benefits - southeast.edu/veterans-services
- ▶ GAP Assistance Program - southeast.edu/gap
- ▶ Children of State Teammate Tuition Reimbursement Program - southeast.edu/children-of-state-teammate-tuition-reimbursement-program



Scan this code to access the course listing

Contact Admissions to get started!

402-437-2600, 800-642-4075 ext. 2600

✉ admissions@southeast.edu



Energy Generation Operations

» southeast.edu/energygenerationoperations



Our Energy Generation Operations program provides you with unique training opportunities that will impact the world. You may not know much about the energy generation industry, and that's why we're here. We'll teach you the skills you need to be successful in your career.

When you begin Energy Generation Operations, you discover how the work you do impacts the world around you. Our civilization depends on energy and the management of these resources, including keeping the electrical power grid working, water plants functioning and much more. In this program you'll learn how to improve outcomes that directly impact the world.

Program Contact Information

David Madcharo, Program Chair
402-761-8464, 800-933-7223 ext. 8464
✉ dmadcharo@southeast.edu

The SCC Experience

- » You'll receive hands-on learning through industry simulators that is the same equipment used in the workforce today. The state-of-the-art virtual-reality software simulates real power plant experiences, preparing students for any situation.
- » We teach a solid foundation in systems operations skills that you are able to apply to a wide variety of industries outside Energy Generation Operations.
- » Students will attend industry conferences and engage with industry professionals through the Nebraska Wind & Solar and Ethanol conferences.
- » The SCC Energy Generation Operations program provides students with hands-on learning. Students spend 60% of their time in lecture courses and 40% of their time in the lab. Many lecture courses include hands-on activities.
- » SCC's program is one of only a few of its kind in the nation. The program was developed as a response to industry needs and continues to work closely with industry experts to ensure students learn the skills and knowledge to be successful in the field.



SCC students wrote and published an article about advanced nuclear technology which was presented to more than 200 attendees at the Nebraska Advanced Nuclear Forum hosted at SCC. Students moderate the conference and are able to see facilities in Nebraska. Students experience how the facilities operate, speak to operators and receive direct experience related to their field of interest.

SCC has transfer agreements where students can complete a bachelor's degree online at:

- Bismark State College, North Dakota
- Excelsior College, New York
- Thomas Edison State University, New Jersey



Program	Credential	Location	Credit Hours Required	Resident cost*	Non-Resident cost*	Starting Term(s)	Number of Semesters Required - Full Time	Is Summer Term Required for Full Time?	Online Option	Can the Program be Completed Entirely Online?	Part-Time Option	Number of Semesters Required - Part Time	Is Summer Term Required for Part Time?	Typical Class Schedule
Energy Generation Operations	Associate of Applied Science	Milford	60-61	\$9,497	\$10,778	Fall Spring	4	Yes	A few classes can be taken online	No	Yes	Dependent on student's pace.	Yes	M-F – 8 a.m. - 4 p.m. Lectures: 1-1.5 hours at a time Labs: 2-3 hours at a time
Energy Generation Operations	Diploma	Milford	30	\$3,510	\$4,140	Fall Spring	2	No	A few classes can be taken online	No	Yes	3-10	No	M-F – 8 a.m. - 4 p.m. Lectures: 1-1.5 hours at a time Labs: 2-3 hours at a time
Energy Generation Operations	Certificate	Milford	15	\$1,755	\$2,070	Fall Spring	1	No	A few classes can be taken online	No	Yes	2-5	No	M-F – 8 a.m. - 4 p.m. Lectures: 1-1.5 hours at a time Labs: 2-3 hours at a time

*Listed program costs are approximate and subject to change based on market price of books, supplies, tools, uniforms, etc. Estimated costs include tuition, fees, books, supplies, tools, uniforms, etc.

NUCP – Nuclear Uniform Curriculum Program

CEWD - Center For Energy Workforce Development

POSS test and prep– Plant Operator Selection Systems test