



Advantage

Career Opportunities
Graduates of the program will be able to pursue a wide range of career opportunities, not only within the emerging field of renewable energy, but within more traditional areas of energy engineering as well. Recent graduates have been employed at companies such as Black and Veatch, Brammo Electric Motorcycles, Georgia Paper, Eco-Solar, Florida Energy and Medford HVAC.

The program also provides a solid preparation for students intending to continue to graduate school to pursue masters degrees in engineering, engineering management, MBAs, and JDs.

Sample Job Titles

- System Design Engineer
- Research and Development Engineers
- Site Analysis Engineer
- Product Development Engineer
- Test Engineer
- Applications Engineer

Oregon Tech

Founded in Klamath Falls in 1947, Oregon Institute of Technology is one of seven universities in the Oregon University System (OUS), and the only public institute of technology in the Pacific Northwest. Oregon Tech provides degree programs in engineering, and health technologies, management, communications, and applied sciences that prepare students to be effective participants in their professional, public and international communities through hands-on learning. Oregon Tech has a full-service, residential campus in Klamath Falls and an urban campus in Wilsonville. The university also has sites in Beaverton, Salem, La Grande, and Seattle, as well as online degree offerings. Visit www.oit.edu to learn more about Oregon Institute of Technology.

Oregon Tech – Accreditation & Rankings

As a public polytechnic university and a member of the OUS, Oregon Tech is well known for its nationally ranked ABET-accredited engineering programs, technical-education, and health-sciences degrees. Oregon Tech is ranked among the top 10 baccalaureate colleges in the Western US, according to *US News & World Report*. Oregon Tech also ranks among the best undergraduate engineering programs in the nation for universities focused on education (35th among the best undergraduate engineering programs in the BS and MS universities category). All Oregon Tech degree programs offered at the Wilsonville Campus are included under the institutional accreditation by the Northwest Commission on Colleges and Universities, the same agency that accredits all OUS universities.

BS in Renewable Energy Engineering

The Bachelor of Science in Renewable Energy Engineering (BSREE) at Oregon Tech is designed to prepare students for the challenges of designing, promoting and implementing renewable energy engineering in society's rapidly-changing energy-related industries. Renewable energy resources include solar thermal collectors, photovoltaics, geothermal heat pumps, geothermal resources, hydroelectric power, wind power and others.

The program is built upon a solid foundation in physics, chemistry, mathematics and communications. Added to this foundation are courses in electrical and mechanical engineering that establish a firm understanding of the fundamentals of energy and renewable resources such as statics, thermodynamics, heat transfer, fluid dynamics, materials, circuit analysis, electronics and control systems. The program offers various options to complement and enhance the BSREE degree, including minors, dual degrees, and 4+1 BS/MS programs. The BSREE program at Oregon Tech can accommodate full-time students, transfer students, and working professionals, and provides a solid preparation for industry or graduate school.

Renewable Energy Engineering

BACHELOR OF SCIENCE

Oregon **TECH**

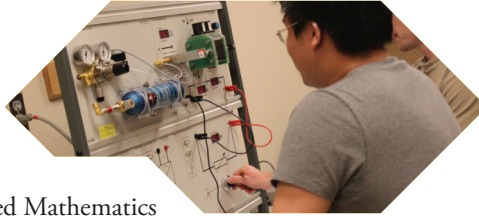
Curriculum

The BSREE curriculum provides a solid foundation in physics, chemistry, mathematics and communication. The program also builds a core in electrical and mechanically engineering with courses in AC/DC Circuits, Electronics, Control Systems, Electrical Power and RE Materials. Additionally, students can specialize in particular areas such as photovoltaics, wind, fuel cells or geothermal by selecting the appropriate technical electives and completing a year-long senior capstone project and course sequence.

Degree Options

The BSEE program offers the following areas of specialization through the selection of a specialization sequence in the senior year:

- Electrical Power
- Green Building
- Geothermal Energy
- Renewable Energy Engineering



The following options are also available:

- BS in REE with Major or Minor in Applied Mathematics (Oregon Tech)
- BS in REE with Minor in Business (Oregon Tech)
- Dual degree BS in REE & BS in Electrical Engineering (Oregon Tech)
- Dual degree BS in REE & BS in Environmental Science (Oregon Tech)
- MS in Renewable Energy (Oregon Tech), MS in Applied Physics (UO)

Transferability

The program offers excellent transferability for students who have completed lower division engineering transfer coursework at accredited community colleges. Oregon Tech has articulation agreements with Portland Community College, Clackamas Community College, Chemeketa Community College, and other Oregon/Northern California community colleges. Please consult the program director at the Klamath Falls Campus for more details.

Dual Degree: BSREE/BSEE

The purpose of the dual degree is to provide the top students with a challenging academic program that will prepare them for career opportunities in the electronics, electrical engineering, power, and energy industries. The students receive a BS degree in a classical engineering discipline (Electrical Engineering), as well as an emerging high-growth discipline (Renewable Energy Engineering). To obtain both degrees, students will take an additional year, completing coursework in Digital Logic, Microcontrollers, C++ Programming, Digital Signal Processing, and other Electrical Engineering areas selected by the student. Refer to the BSREE website or the Oregon Tech catalog for more information on dual degree requirements.

Program Accreditation

The Renewable Energy Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. ABET is a specialized accrediting board recognized by the Council for Higher Education and/or the Secretary of the U.S. Department of Education.

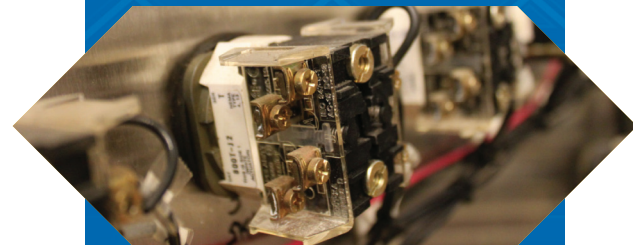
EXPERIENCE

Department

The BSREE program is part of the Department of Electrical Engineering & Renewable Energy (EERE) at Oregon Tech. Other degrees offered by the EERE Department are: BS in Electrical Engineering, BS in Electronics Engineering Technology, and MS in Renewable Energy Engineering.

Program Benefits

- ABET accredited
- US News ranked engineering programs
- Hands-on and relevant curriculum
- Excellent transferability
- Fantastic job opportunities for graduates
- Top-notch team of faculty
- Small student-to-professor ratio
- Student focused education



Contact us

For more information, schedule an advising appointment by calling: 541-885-1656

www.oit.edu

Hands-on education for real-world achievement.