

Energy Systems Engineering



DEPARTMENT WEBSITE:

osucascades.edu/academics/energy-systems-engineering

ABOUT THE MAJOR:

The Energy Systems Engineering (ESE) program is a combination of mechanical and industrial engineering core courses supplemented with energy-related and business management courses. Energy systems engineers oversee complex energy conversion and distribution systems, work to improve energy storage systems, and manage the efficient use of energy in building, manufacturing, and processing systems. These engineers also study the secondary effects of energy usage from a local environmental impact, regional and national economic impact, and global climate change perspective.

DEGREE: BS in Energy Systems Engineering

POTENTIAL OCCUPATIONS:

Asset Management
Automation Engineer
Cert. Energy Manager
Design Engineer
Electrical Engineer
Energy Auditor
Energy Broker
Energy Conservation Engineer
Energy Distribution Engineer
Energy Efficiency Engineer
Energy Engineer
Energy Facilities Manager
Energy Smart Planner
Energy Storage Engineer
Energy Systems Engineer
Field Engineer
Environmental Engineer
Industrial Engineer
Logistics Engineer
Maintenance Manager
Manufacturing Engineer
Mechanical Engineer
Process Engineer
Project Engineer
Quality Engineer
Research Engineer
Solar Energy Engineer
Systems Engineer
Thermal Performance Engineer
Transportation Engineer
Utilities Specialist
Wind Energy Engineer



WORK ENVIRONMENTS:

Manufacturing Companies, Government Agencies, Consulting Firms, Environmental Agencies, Conservation Organizations, Energy Companies, Power Plants, Mining Companies, Research Institutions, Architectural Firms, Construction Companies, Agricultural Companies, Mining Companies, Colleges & Universities, Corporations, Nonprofit Organizations

WHERE ARE OSU-CASCADES ALUMNI WORKING?

Project Engineer, Deschutes Brewery
Systems Engineer, US Department of Defense
Field Engineer, Johnson Controls
Power Engineer, Pacific Power
Process Engineer, Chase Doors
Consultant Engineer, Alternative Energy Systems Consulting
Sales Engineer, Lynx Technologies
Manufacturing Engineer, Bend Research, Inc
Design Engineer, ESCO
Engineering Tech, Medline ReNewal
Electrical Engineering Tech, US Army Corps of Engineers
Commissioning Engineer, Glumac Engineering

SKILLS DEVELOPED IN THE PROGRAM:

Critical Thinking, Creativity, Decision Making, Complex Problem Solving, Quantitative Reasoning, Attention to Detail, Organization, Communication (verbal & written)

CAREER DEVELOPMENT CENTER

www.osucascades.edu/cdc

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