ONLINE 2-YR DEGREE

LANE COMMUNITY COLLEGE

Independent Learner Energy Education Design

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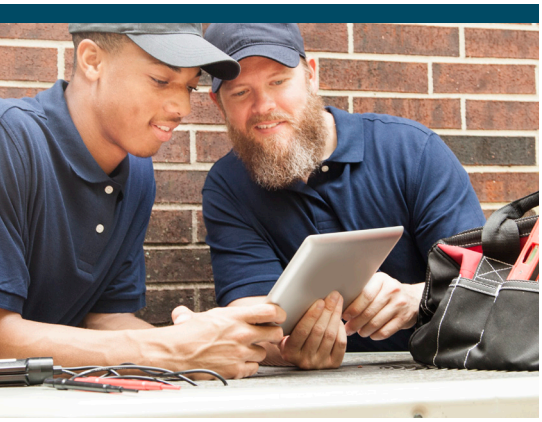
Energy Efficiency is the most exciting technology you've *never* seen.

-Elaine Adams
Rocky Mountain Institute

2-Year Online Degree in Energy Management

Energy Management is the strategic evaluation of energy use. In large commercial buildings, that typically means looking at energy consumed by motors, fans, heating ventilation and air conditioning (HVAC) equipment, small & large plug loads, lighting and even people! If you enjoy digging into data analytics, researching and problem solving, investigating how mechanical systems work or measuring and verifying operations — **we have the program for you!**



Learn how to evaluate energy use patterns; develop, implement, market and maintain conservation programs; perform public outreach; recommend energy efficiency techniques; integrate alternative energy sources; and perform systems analysis to solve problems.

The Energy Program at Lane Community College in Eugene Oregon has a long rich history of preparing students for jobs in the commercial building energy efficiency workforce. In order to fulfill the demand for trained professionals that are required to meet the National [1] / Regional [2] energy reduction plans and workforce shortfalls [3], **we are seeking to enroll students from all across the Pacific Northwest.**

1 - 20% energy use reduction in commercial buildings by 2020 - USDOE, Clean Power Plan
2 - Oregon Clean Electricity, Coal Transition Act (SB 1547B) removes coal from Oregon's electricity by 2030. Doubles Renewable Portfolio Standard to 50% by 2040. Washington's I-937 requires utilities increase cost-effective energy-efficiency measures and increase renewables 9% by 2016 and 15% by 2020.
Montana, Idaho and California also have similar reduction mandates to achieve.
3 - 50% of the country's electric utility workforce is expected to retire in the next 5-10 years. - U.S. Department of Labor. 55% of respondents report that more than 20% of their workforce will be eligible to retire in the next 5 years. 58% of polled utilities believe retirements will pose either a moderate or great challenge to their utility. - 2015 APPA workforce survey

Why become a Student?

1. It's a convenient, flexible, and affordable degree.
2. Avoid commuting. Utilize local College classes.
3. Access technical training not provided locally.
4. Not just online. Local Fieldwork is required.

Online degrees are fairly commonplace in many sectors of higher education but career-technical education (CTE) lags behind, in large part due to the hands-on fieldwork requirements of CTE type programs. Our goal is to have students get hands-on, high quality experiences equal to, or better than, they would receive in a college laboratory environment.

Hands-on Projects through Industry Partners.

Although students will be getting the majority of their training hours through instructor led online classes, it is imperative that we connect "book smarts" to real-life experiences.

That's where our industry connections provide huge value. Experiences outside the online classroom will be facilitated by individuals who work in the industry within your local area.

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ENERGY EFFICIENCY FUTURE

Update a Career or Find a New One.

- ✔ The average starting salary of graduates is **$40,000-$50,000/year***
- ✔ Job opportunities are **diverse** and spread throughout utilities (public & private), engineering & architecture firms, property management agencies, lighting & HVAC companies, school disctricts and State or Federal agencies.
- ✔ Energy Industry employment remains excellent and the program has traditionally seen about an **80% placement rate** for students who have completed the program locally.
- ✔ **Degree is transferable** to a 4-year bachelor's degree (online!) via South Seattle College.

* This range is dependent on location.

The program provides a comprehensive technical education that prepares graduates to evaluate commercial building energy usage with the goal of saving energy, money and natural resources. Those who complete the program will graduate with a Two-Year Associate of Applied Science Degree in Energy Management from Lane Community College.

Topics include: commercial building systems, lighting, glazing, insulation & envelope, heating & cooling fundamentals, secondary HVAC, central plants, building controls, energy auditing process & techniques, data-logging, investment analysis & payback plus building benchmarking & tracking energy use.

SIGNUP, FAQ'S AND ADDITIONAL INFORMATION AVAILABLE AT

iLEED.org/student

Contact: Roger Ebbage | ebbager@lanecc.edu | Phone: (541) 463-6160

PARTNERS

NWEEI THE NORTHWEST WATER AND ENERGY EDUCATION INSTITUTE

Lane Community College

Washington State University Extension Energy Program

NWPPA Northwest Public Power Association

CREATE

University of Oregon A&AA

South Seattle College

Columbia Gorge Community College

EWEB

NSF

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