



Oregon Institute of Technology Strategic Training and Education in Power Systems

Project Description

Oregon Institute of Technology's (OIT) Strategic Training and Education in Power Systems project cross-trains power engineering graduates in electrical, mechanical, and energy engineering; building on a strong foundation in mathematics and science. OIT graduates also have a firm understanding of renewable energy source integration, energy policy, and economics. OIT will increase the number of energy and systems engineers in the electric power industry by augmenting curriculum and faculty resources, expanding laboratory capabilities, and increasing industry collaboration. New faculty will be hired and laboratory facilities expanded to support anticipated enrollment.

Goals/Objectives

- Create a project-based course of study and incorporate design opportunities related to power generation, transmission, energy storage, and power electronic equipment
- Provide applied research opportunities for distributed power systems testing, power conditioning, and utility-focused energy storage
- Place students in internships at electric power companies, power engineering consultancies, and wind energy companies
- Enhance management topics within the curriculum to include power industry history, economics, and policies
- Collaborate with industry by hiring experts to teach courses at OIT

Benefits

- Produce workplace-ready graduates prepared to manage the cross-disciplinary engineering issues confronting the electric power industry
- Increase the number of power engineering graduates from OIT
- Establish a Master's degree program in power engineering



CONTACTS

Deborah Buterbaugh
Project Manager
National Energy Technology Laboratory
3610 Collins Ferry Road
Morgantown, WV 26507-0880
304-285-4164
deborah.buterbaugh@netl.doe.gov

Robert Bass
Principal Investigator
Oregon Institute of Technology
3201 Campus Drive
Klamath Falls, OR 97601-8801
541-885-1235
Robert.bass@oit.edu

PARTNERS

None Listed

PROJECT DURATION

7/7/2010–7/7/2013

COST

Total Project Value
\$2,865,038

DOE/Non-DOE Share
\$2,491,100/\$373,938

PROJECT LOCATION

Oregon

CID: OE0000404

*Managed by the National Energy Technology
Laboratory for the Office of Electricity
Delivery and Energy Reliability*

