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

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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

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