APPROPRIATIONS REQUEST FORM
OREGON HOUSE DELEGATION
FISCAL YEAR 2010

DEADLINE FOR SUBMISSION: FEBRUARY 13, 2009

PLEASE NOTE: As required by the House Appropriations Committee, all requests will be made public on the requesting Member's website.

1. Project Title:

OIT Green Technology Center

2. Organization Name and address:

Oregon Institute of Technology
3201 Campus Drive
Klamath Falls, Oregon 97601

3. Primary Contact name, phone number, mobile phone number, fax number and email:

Contact: Chris Maples, OIT President
Phone: 541.885.1112
Fax: 541.885.1101
Email: Chris.Maples@oit.edu

DC Contact: Joel Rubin, Conkling Fiskum and McCormick
Phone: 202.347.9171
Fax: 202.824.8667
Email: joelr@cfmdc.com

4. Project Location Address (if different from Organization):

OIT Portland East
7726 SE Harmony Rd
Portland, OR 97222

5. Please describe the requesting organization's main activities, and whether it is a public, private non-profit, or private for-profit entity:

Oregon Institute of Technology, the only public institute of technology in the Pacific Northwest, 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.

6. Briefly describe the activity or project for which funding is requested (please keep to 500 words or less.)

OIT requests $500,000 for the first stage of a Green Technology Center (GTC) at its Portland East Campus. The funds would go towards the construction of three new renewable energy laboratories and related equipment.

The GTC will be developed within an existing 56,000 square foot gym at OIT's East Campus. The proposed funds will support minor renovations of the gym area and development of three laboratories. The laboratories focus on the existing strengths at OIT Portland, and balanced with industry needs for graduates versed in the various disciplines of energy engineering.

The three laboratories include:

- Building Systems Laboratory: Energy efficient building systems design and control.
- Electrochemical Energy Systems Laboratory - Fuel cells, hydrogen and battery systems, including component design for manufacturing.
- Thermal Power Systems Laboratory - Ground-source heat pumps, solar thermal energy systems, absorption cooling, thermal energy storage.

The Objectives of the Green Tech Center (GTC) are to:

- Educate the next generation of energy engineers by providing ample opportunity for a relevant, hands-on energy engineering education.
- Support student projects and foster applied research.
- Encourage industry-academia partnerships that facilitate energy engineering education and the development of energy-related products, services and solutions.

7. Has this project received federal appropriations funding in past fiscal years?

No

7a. If yes, please provide fiscal year, Department, Account, and funding amount of any previous funding.

8. Federal agency and account from which funds are requested (Please be specific – e.g. Department of Housing and Urban Development, Economic Development Initiatives account):

Department of Energy – Energy Efficiency and Renewable Energy Resources

9. What is the purpose of the project? Why is it a valuable use of taxpayer funds? How will the project support efforts to improve the economy and create jobs in Oregon?

The recent emphasis on promoting the renewable energy industry in Oregon by Governor Kulongoski and a similar promotion by President Obama for renewable R&D from the federal level has encouraged investors and business to consider investing in the energy sector. Thus, the Renewable Energy Engineering (REE) program is attracting students to take advantage of the renewed interest and the potential for meaningful employment in Oregon. Developing the Green Technology Center laboratories will assist OIT in providing current and practical training for future energy engineers.

The Bachelors of Science in Renewable Energy Engineering program at the Oregon Institute of Technology continues to grow at a rapid rate. This fall, 83 students enrolled in the program, a 55% year-on-year increase. We expect spring enrollment headcount to top 90. Further, 330 prospective students have contacted OIT since the beginning of the 2008-09 academic year. We anticipate fall 2009 enrollment to exceed 120 students, given an appropriate measure of support in terms of facilities, faculty and lab equipment.

The Center would be used to support OITs new BS degree in Renewable Energy Engineering (REE). The degree was developed to support the recent influx of renewable energy firms in the Portland area - such as wind and solar manufacturing facilities. Employees of these firms and potential job seekers are enrolling the REE program to improve their skills, increase their employment opportunities, and supplement their existing university education - as many already have bachelor degrees in other fields.

10. Have you requested funding for this project from other Members of Congress? If so, who?

Yes. We submitted appropriations requests to the following offices:

Senator Wyden
Senator Smith
Representative DeFazio
Representative Schrader
Representative Walden
Representative Blumenauer

11. Funding Details:

a. Total project cost (all funding sources and all years):

$815,000

b. Amount being requested for this project in Fiscal Year 2010:

$500,000

c. What other funding sources (local, regional, state) are contributing to this project or activity? (Please provide specific dollar amount or percentage.)

OIT will provide the required local match - $315,000

d. Do you expect to request federal funding in future years for this project?

Future requests will depend on how much funding is received in FY2010.

e. Breakdown/budget of the amount you are requesting for this project in FY 2010. (e.g. salary $40,000; computer $3,000):

The federal funding request of $500,000 would cover a portion of the cost of the building upgrades and equipment costs to construct three new laboratories at the OIT Portland East Campus. The total budget for the project is outlined below:

Capital Expenditures	
Minor building upgrades: HVAC, lighting, etc	$225,000
Building Systems Lab	
Laboratory HVAC system backbone	$45,000
Building systems monitoring and data logging	$110,000
Electrochemical Systems Laboratory	
Electrochemical systems	$105,000
Hydrogen distribution, storage	$75,000
Chemical workstations, fume hoods, safety	$25,000
Thermal Power Systems Laboratory	
CO2-refrigerant heat pump laboratory equipment	$65,000
Rooftop thermal collection system	$100,000
Thermal systems monitoring and data logging	$20,000
Total Cost	$815,000

f. Please list public or private organizations that have supported/endorsed this project:

Klamath County Economic Development Association
Trey Senn, Director
541.882.9600

Renewable Energy Division, Oregon Department of Energy
Dr. Carel DeWinkel, Senior Policy Analyst

503.378.6099

Washington State University Energy Program
Dr. R. Gordon Bloomquist, Senior Scientist
360.956.2016

We are working on compiling a list of additional supporters. This list will be hand delivered to your DC office when President Maples visits the city in March.

g. Is this project scalable? (i.e. if partial funding is awarded, will the organization be able to use the funds in FY 2010?):

Yes

Please return this form no later than February 13, 2009 (via email) to: appropriations.blumenauer@mail.house.gov