

Community College Capital Projects  
 Federal Stimulus Competitive Grants  
 Feb. 11, 2009

College	Project Name	Project Priority	Estimated Start Date	Estimated Completion Date	Project Category			Project Needs			Total Square Footage	Cost per Total Square Foot	Local Sources	Federal Grant Request	Total Project Cost	Project/ Program Description
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Central Oregon	Energy Efficiency Control Systems and Upgrades to HVAC	1	Jul 2009	Feb 2010	x	x			x			0	650,000	650,000	As Oregon's first community college, COCC has some of the oldest facilities. Upgrading the HVAC and control system will save considerable energy. The project supports installation of advanced energy management systems to better control existing HVAC systems. These initiatives would reduce energy consumption and save funds over the long term.	
Central Oregon	Renovate and Modernize Redmond Campus Building Including Green Technology Upgrade for Energy Efficiency	2	Sep 2009	Dec 2010	x			x	x		1000 (renovation) 2000 (new)	\$350 for science lab & chem store room (renov) \$220 for 2 88 SF classrooms	0	900,000	900,000	Increase space for general instruction, manufacturing technology programs. Provide first science lab for the Redmond Campus. Install photovoltaic solar system to be used for energy generation and prototype for potential instructional use in technology programs.
Central Oregon	Solar Hot Water Systems for Mazama Center	3	Sep 2009	May 2010	x				x			0	250,000	250,000	Shower facilities in the Mazama Center place a heavy demand on energy. Installation of a solar hot water system can significantly improve the energy efficiency of the facility. With a strategically oriented south-facing roof, the facility is set for such an improvement.	
Central Oregon	Development of Renewable Energy Technician Program	4	Jul 2009	Sep 2010	x				x	x		0	155,000	155,000	The project is a combination of curriculum development, business partnership development, articulation of two-year and less-than-two-year programs to renewable energy/sustainability bachelor degree programs, and lab development. COCC seeks to develop a new academic renewable energy technician training program. Program development work will collaborate with existing industries active in the field as well as consider collaboration with other Oregon community colleges offer sustainability programs in solar, wind and geothermal and other green energy fields.	
Central Oregon	PV Solar Array	5	Mar 2010	Aug 2011	x				x			Health/Sci: \$200,000	Health/Sci: \$400,000 Alternative: \$400,000	Health/Sci: \$600,000 Alternative: \$400,000	Central Oregon has significant potential for solar energy efficiency with our local story of "300 days of sunshine per year." COCC proposes adding a PV solar array for electrical production to one of its main campus buildings. First priority would be given to adding this to the college's proposed Health and Sciences Center (subject to approval of a local construction bond in May 2009). A \$160,000 grant from Pacific Power has already been pledged for an estimated \$600,000 solar installation for this facility. If the bond is not passed, a slightly smaller solar array would be added to an alternative building to be selected after involving energy consultants and architects.	

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Chemeketa	Industrial Maintenance Operator Mechanic Project		Jul 2009	Jun 2010			x			x			351,000	175,000	526,000	This project will assist 700 workers who are seeking to advance their talent capabilities within their current employment and provide our region with a responsive work-based training design that effectively documents and transfers the expertise of our region's most seasoned workers. Talent development would be specifically designed to expand regional manufacturing and product processing capacity to compete in a global marketplace. Training activities will be conducted at the worksite focusing on worker talent development. Project objective is to accelerate regional global competitiveness, retain existing workers and create new jobs for dislocated workers. The baby boom workforce in our region is rapidly advancing to retirement age. Baby Boomers 45-64 years of age and older nationally represent over 40 percent of the overall workforce (DOL report 2008). This generation of workers has been instrumental in advancing Oregon's economy and industrial capabilities. They have been the quintessential backbone of our region's economic strength. Vital public and private resources and capital have been As a regional economy, our 50 year training and know
Chemeketa	BioFuel Refining		3/15/09	12/31/09	x			x	x	x	30,000	\$320	9,401,000	837,000	10,238,000	The purpose of the project is to establish a world-class facility with substantial training capacity to prepare workers for new jobs in Oregon's emerging high-growth BioFuel processing industries. The proposed facility would produce commercialized BioFuel products, Licensing and Grant Funding opportunities for program sustainability. The project will create 450 new jobs in Biofuels process technology. Job creation activities would focus on preparing and placing new and dislocated workers in family wage jobs connected to product processing, product distribution, and feedstock procurement. The results of the project will expand talent capacity in process technology throughout the region, advance "Green" Fuel technology for power generation and public sector fleets, and anchor full scale liquid Biofuels processing capacity and distribution infrastructure in Oregon. Biofuels represents to the Mid-Willamette Valley one of the clearest opportunities for exploitation, but as a region we lack the infrastructure and know-how to make it cost-competitive to conventional fuels. This pr

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Chemeketa	Photovoltaic Assembly/ Maintenance		Apr 2009	Jul 2010	x					x			525,000	150,000	675,000	Train 175 workers to fill jobs in manufacturing and maintaining emerging "Green Alternative Energy" photovoltaic cells from processed wafers. Participants from the program would be eligible for immediate employment in high-growth solar energy and wafer processing companies such as: SANYO, Intel and FLIR. This project will be developed in collaboration with SANYO Electric Corporation (SANYO), Strategic Economic Development Corporation (SEDCOR), Chemeketa Center for Business and Industry (CCBI), and the Oregon Economic and Community Development Department. The project outcome would include an open-entry certificate training program that trains new workers in the emerging "Green" solar assembly and maintenance industry. This is an emerging field that in conjunction with the Alternative Energy Research Park on Gaffin Road, Salem, Oregon will be a catalyst to attract additional "Green" energy companies and create new jobs to the mid-Willamette Valley. A key component of this project is it's adaptability to companies seeking the talent development capacity to prepare new and dislocated workers to fill jobs assoc	
Clackamas	Alternative Energy Technician Training Center Phase I	1	Apr 2009	Jun 2011	x				x	x	7000	\$7.50		816,121	816,121	Goal: Train the next generation of alternative energy technicians to be employed in a strong, green Oregon/US economy.	
Clackamas	Extend Student Access in Rural Communities to Broadband Internet Services for Healthcare Education and Expanding Access to all CCC Programs	1	As soon as funded	Sep 2010			x			x				675,000	675,000	Extend student access to the Oregon Health Network in rural Clackamas County high schools in Molalla, Canby and , Estacada by providing a broadband internet access to the Telehealth Network for health care delivery and heath care education. The intent of this project is to create a technology rich environment at Clackamas Community College that creates jobs for local businesses, distinguishes the college as a leader and innovator in the effective use of future technologies; provide technology-based systems that enable the delivery of instruction using a variety of media and delivery methods to our K-12 and community learning centers.	
Clackamas	Hybrid Vehicle Technician Program	1	Sep 2009	Jun 2011	x					x				223,000	223,000	Develop, pilot, and deliver short term training for incumbent workers in renewable energy fueled vehicles. Purchase 5 hybrid technology vehicles and develop an alternative energy option for the automotive program at Clackamas Community College. This option will also serve the entry level workforce.	
Clackamas	Preparing Small Business for Lenders	3	As soon as funded	Sep 2009			x			x				28,000	28,000	Clackamas Small Business Dev. Center has developed a 6 session, hands on workshop designed specifically to help business owners develop a business plan for the specific purpose of obtaining a bank loan. This includes text materials, coaching, meeting a panel of bankers. Class will be offered to small buinesses in 4 rural communities within the college district.	

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Clackamas	Sustainable Food Production	1	As soon as funded	Dec 2010			x			x				250,000	250,000	This program will aid small food producers with training for improving food production techniques, food handling safety, and sustainable farming practices. The grant will be used for equipment, materials, development, instruction and coordination between industry groups. Growing more food regionally reduces transportation charges and improved food handling to improve food safety.
Clackamas	Weatherization Technician (VESL and NON-VESL)	1	As soon as funded	Jun 2011		x			x	x	7,000	\$7.50		389,442	389,442	Goal: Work with Clackamas County Community Solutions Weatherization program to develop, pilot, deliver short term training, work with WIA and OED Integrated Services (WorkSource Clackamas) to quickly move non-native speaking workers from unemployed to employed in these key areas: o Weatherization Installer/Maintenance. (7 cohorts, 160 hours, 5 weeks, 70 – 84 people)
Clackamas	Drinking Water and Waste Water Certification Upgrade (delete <del>with Math</del> )	1	Sep 2009	Sep 2010		x				x				21,000	21,000	Clackamas Community College has a State of Oregon approved (one year certificate and two year Associates of Applied Science degree) program in Water & Environmental Technology (W&ET). This program is designed to educate and train a skilled workforce whose careers are to deliver safe drinking water and treat sanitary wastewater in Publicly Owned Treatment Works (POTWs) in the US; particularly the Pacific Northwest, especially Oregon. A USEPA directive requires this workforce to become state certified within levels I through IV depending on education and work experience.
Clackamas	Energy Efficiency Specialist Utility Area: 6 month training program	1	As soon as funded	Fall 2009		x				x				54,000	54,000	Train students to become specialists in the field of energy efficiency. Students will be trained to conduct energy efficiency analysis in business/industry. Includes Curriculum Re-development, Instruction – per two terms, Equipment
Clackamas	Co-Generate Electrical Power From Boiler Operations at Oregon City Campus	2	Sep 2009	Aug 2010		x		x			550,000	\$1.43		785,000	785,000	This project installs low pressure steam powered electrical generators inside the existing boiler room at the Oregon City campus to co-generate electrical power as a by-product of the normal boiler heating operations. This project reduces the overall utility bill for the college. This project requires engineering evaluation and construction documents and will be ready to begin by summer 2009. Preliminary planning is completed. Contractor will be selected using the economic stimulus selection criteria established by the State of Oregon, the college's Local Contract Review Board and other entities. Contractor is regional and will use local employees on these projects. The project includes placement of steam powered electric generators inside the existing boiler room at the Oregon City campus and running steam and condensate return lines to the generators. Also involved is the installation of electrical panels and inter-ties to bring the electrical energy to the campus. College has a conceptual designs and engineering support of this co-generation proposal.

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Clackamas	Environmental Learning Center (ELC) Runoff Water Management & Education	2	As soon as funded	Oct 2012	x			x				100,000	3,100,000	3,200,000	This project would result in the design and installation of a state of the art runoff water management system to be constructed on Clackamas Community College campus ELC. In addition to improving water quality, the project would then serve as a teaching and demonstration site.	
Clackamas	Landscape Irrigation Certificate	2	Sep 2009	Sep 2010			x			x		100,000	125,000	225,000	Development, implementation, and materials needed for a one year certificate covering design, installation, repair, maintenance, programming, monitoring and upgrading irrigation systems for residential, business, parks and golf courses. This program will allow its graduates to evaluate and upgrade existing systems as well as design new water efficient systems to improve water utilization and reduce the amount of water needed for landscape irrigation. The program will align with the EPA's new WaterSense program and the local Oregon WaterWise program for water conservation.	
Clackamas	Basic Skills for Workforce Readiness	3	As soon as funded	Spring 2012			x			x		?	900,000	900,000	Develop expand workforce –specific basic skills and GED training for rapid readiness to enter the workforce or to upgrade employment position for adults with skill levels below high school diploma levels, and English as a Second Language learners. Expand GED, ESL or VESL instructional sites to 3 additional low-income communities each. Expand Spanish GED preparation to 3 additional low-income sites. Develop and implement 3 additional district sites for “fast track” GED preparation for students who can pass the GED with short-term, focused instruction. Expand pre-testing of CASAS and the official GED pre-test to ensure instructional readiness.	
Clackamas	Greenhouse for Small Business	3	Spring 2009	Sep 2009			x			x			32,000	32,000	Small Business Management (SBM) program is a nationally recognized program for small business owners who have been in business for a year or more.	
Clackamas	Tanks for support alternative fuels for boilers at Oregon City campus	3	Sep 2009	Aug 2010		x		x			550,000	\$1.23	675,000	675,000	This project installs alternative (propane) fuel tanks to provide back up fuel source to the college during times of natural gas interruption. This installation allows all three campuses to move to a much less expensive interruptible rate schedule thereby reducing utility costs.	
Clackamas	Sustainable landscape construction	4	Jul 2009	Oct 2010	x			x		x	6,000	\$25	200,000	312,500	512,500	The project includes a building where hands-on landscape construction activities can occur during the night and inclement weather. It also includes the development, teaching and materials of a one-year certificate program for the design, implementation, demonstration and construction of green roofs and rainwater harvesting.
Clackamas	Creation of a teaching and learning lab for renewable energy technology and water and environmental science	1 (H)	Oct 2009	Sep 2010	x		x		x		2000	\$140.00	280,000	280,000	560,000	Design and build a Teaching/Learning Lab for implement assistance strategies for under-prepared students and to serve as a laboratory for the development and testing of new courses and technologies including instruction in renewable energy.

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Clackamas	Electrical Grid efficiency improvements	5	Jul 2009	May 2010		x			x		550,000	\$4.55	2,500,000	2,500,000	5,000,000	College electrical distribution system at the Oregon City campus is antiquated and failing. The project replaces antiquated and outdated transformers and failing electrical distribution lines – Replace undersized and dangerous electrical distribution vault – install looped distribution feeder system to reduce the risk of power outages. This project is ready to begin as soon as funded. Contractor is regional and will use local employees on these projects. Use of local employees and emerging businesses as subcontractors will be closely monitored by the college. Details and bid requests are issued to each of the contracted electrical firms and low bidder gets awarded the work.
Clackamas	Electrical Vehicle Recharge Stations at all three campuses	5	Aug 2009	Feb 2010	x			x			700,000	\$0.25		175,000	175,000	This project installs electrical connectors at all three campuses to re-charge electric vehicles. This project requires minimum engineering. Installation will allow the college to provide recharging stations at each of its three campuses for use by electric vehicles. Contractor is regional and will use local employees on these projects.
Clackamas	Expand Student Access to Distance Learning Opportunities	1 (H)	As soon as funded	Jan 2010			x			x				180,000	180,000	The purpose of this project is to provide technology-based systems that enable the delivery of instruction using a variety of media and delivery methods possible by creating an environment where technology enriches the learning experience, provides for anywhere/anytime access to the Internet and other instructional resources and prepares students for their careers in the 21st century.
Clackamas	High Purity Water and Acid-Waste Neutralization Conference	5	Jul 2009	Aug 2010		x				x			25,000	25,000	25,000	Clackamas Community College has a State of Oregon approved (less than one year certificate) program in High Purity Water (HPW). This program takes a skilled student through the a difficult study of rendering drinking water to an ultra-purity in excess of 16mega-ohms, through a complex mix of technologies to include reverse osmosis, nano-filtration, and deionization. Funding this proposal would complement this program and provide funds for the "start-up" of an annual Oregon Conference (on the campus of Clackamas Community College) designed to bring Hi-Tech companies utilizing (HPW) technologies together with those experts and manufacturers across the US to share in problem solving techniques and emerging methods to provide even cleaner HPW waters at an affordable price to industries. Those industries involved would include Intel, SEH America, Siltronics, and Fujitsu in the local area plus national exposure and invitations to those industries that need an updated technology to improve efficiency in HPW.

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Clackamas	Incorporate Computer assisted instruction in multimedia instructional methods	2	As soon as funded	Jun 2010			x			x			235,000	235,000	Incorporate computer-assisted instruction and multi-media instructional methods to meet the learning needs of at-risk students and to improve the college's ability to address the diverse needs of all students by integrating a broad range of mobile computing and communications devices into the campus network environment. Project will create jobs for local businesses, distinguish the college as a leader and innovator in the effective use of future technologies; provide technology-based systems that enable the delivery of instruction using a variety of media and delivery methods.	
Clackamas	Modernization of 110 classrooms to support the infusion of advanced technologies and other energy efficiency improvements	1 (H)	Sep 2009	Dec 2010	x		x		x		99,000 (900 sq ft per classroom)	\$18.88		1,870,000	1,870,000	Upgrade and modernize 110 classrooms by implementing advanced technologies to support the needs of emerging instructional technologies including laboratory, hands-on instruction and distance learning simulation environments and other energy efficiency improvements.
Clackamas	Provide specialized technology multimedia labs	1 (H)	Sep 2009	Jan 2010			x		x		2000	\$60		120,000	120,000	Provide specialized technology multi-media labs where students and faculty members can work individually or collaboratively using advanced and multi-departmental applications.
Clackamas	Wind/Solar exterior lighting at all three campuses	5	Aug 2009	Sep 2010	x			x			700,00	\$2.57		1,800,000	1,800,000	This project installs wind turbine and solar/battery electrical supply system for all exterior lighting at all campuses. This project requires minimum engineering evaluation and construction documents. The college is currently installing a demonstration project that supports the efficiencies of converting campus exterior lighting to wind/solar power.
Clatsop	Engineering and Environmental Engineering Technician Program	1	Jul 2009	Feb 2010	x			x	x		13,250	Cost Calculation wrong		3,166,100	3,166,100	Energy and environmental engineering are high demand, high wage industries that are at the central core of helping solve today's most critical global crises. Expanding instructional space adjacent to the College's unique bioremediation wastewater treatment system (one of only three Colleges nationally and the only one designed not only for active treatment but for environmental research) will enable the College to implement a variety of new curricular offerings which complement our current maritime, industrial technology, and science curricula. The instructional space (classroom, lab, and greenhouse) will provide vital facility resources needed to prepare a skilled, technical workforce for the burgeoning renewable energy and green technology fields. These facilities will also enable the College to create and expand partnerships with OHSU (maritime research and pre-engineering), CGCC (maritime wind generation and wave technology), local/state/federal agencies (wetlands bioremediation research), etc. by offering unique physical resources that combine instructional space, r
Clatsop	Elevated Parking Deck		Immediately	2/1/10			x	x			30,000	5,848,000		5,848,000	5,848,000	Use of an elevated parking deck would allow for additional expansion opportunities for instructional facilities at the Jerome Avenue campus. An elevated parking deck over an already existing parking lot would allow an additional 100 parking spaces on the Jerome Avenue campus. Hillside stabilization, engineering, and soils and testing would cost approximately \$800,000 of the \$5,848,000.

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Clatsop	Upgrade 3 <sup>rd</sup> floor Patriot for ADA		1/1/10	2/1/10			x		x		320	Cost Calculation wrong		54,500	54,000	Project will upgrade third floor of Patriot Hall to provide restroom accessibility.
Clatsop	Sound Attenuation – Student Services		Apr 2009	Jun 2009			x		x		3,000	Cost Calculation wrong		51,750	51,750	The Student Services building has open construction and design to enhance service to students. Sound clouds would serve to reduce some of the reflective sounds in this large open area.
Clatsop	Automotive Technology and Alternative Energy Vehicles		Jul 2009		x					x				56,500	56,500	Acquisition of automotive equipment will allow students to have hands-on experience with alternative energy vehicles.
Columbia Gorge	Renewable Energy Technology Program	1	Apr 2009	Apr 2012	x					x				2,000,000	2,000,000	College has already received about \$3.9 million from various sources to support these RET programs. \$2.0 million supports: a. One full-time or two part-time faculty to teach electronics classes for RET:\$75,000 incl. OPE/year or \$225,000 (3 yrs.) • Teach first- or second-year electronics; on-site, customized training or new employee classes for wind partners, and/or researching emerging green technologies (electric car, wave, geo-thermal, fuel cells, bio-mass, solar) to keep curriculum current with emerging renewables. Local engineers or energy workers may be willing to teach one or two class(es) rather than being a full-time faculty. b. One full-time RET faculty (current position) \$75,000 / \$225,000 over three years. c. Contracted services to complete hybrid development of RET courses \$50,000 for 1 year. d. Program coordinator \$70,000 incl. OPE / year or \$210,000 (3 yrs.). • Duties include coordinating inter-agency, inter-governmental, and inter-college agreements, industry requests for training, and student field experiences to
Klamath	Geothermal Water Source Heating System	1	Jun 2010	Sep 2011	x			x			45,000	\$10.78 (For Grant)	15,400,000	485,000	15,885,000	\$15.4 m from local match and XI-G bonds. Incorporate an open loop geothermal heating system into Klamath Community College's Phase I Project to heat two buildings totaling 45,000 square feet. Cost of the Grant (\$485,000) includes the cost of the well(s) and the additional cost of the system which are in excess of a conventional heating system. NOTE: Currently there are no wells on KCC property. This project is dependent on a successful well being developed. There are many suitable wells around KCC's property.



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Lane	Center for Energy Transformation, Option E (Modified)	1	Nov 2009	Jun 2012	x			x			80,000	\$300	9,000,000	27,000,000	36,000,000	<p>The Center for Energy Transformation provides an opportunity for Lane Community College to facilitate the state's need and infrastructure to support the workforce, educational, and business needs in the renewable energy and energy efficiency sectors while supporting job creation and skills development in other critical areas, such as English language acquisition, health care, adult basic skills, and business development and training. The new 80,000 square foot building in the heart of Eugene would provide and support training in an array of energy occupations—from entry-level weather optimization technicians to advanced energy audit analysts—while providing a shovel-ready construction project that directly supports workforce training and jobs now as well as future positions.</p> <p>This multiuse facility will serve as a center that teaches about renewable energy and energy efficiency while supporting various other workforce, skills, and business development programs critical to various sectors of the local, regional, and state economies. The building is expected to have 100 perc</p>
Lane	Training The Green Workforce	2	Apr 2009	Jun 2010	x					x				500,000	500,000	<p>The energy education pathway includes three critical areas needed by the state and meets workforce needs, as listed below.</p> <p>The Energy Efficiency / Weatherization training program will use a pathway structure beginning with weatherization installation. Students learn the industry accepted process for installing typical weatherization products. Students complete one week of training that prepares them to work as employees for weatherization contractors, who currently are understaffed.</p> <p>The second level of training engages existing weatherization materials installation workforce as well as incumbent workers interested in progressing in the industry. The three-week training provides enough building science theory and energy auditing fieldwork to qualify participants in conducting energy audits, pressure diagnostics, and appliance performance tests in the residential sector.</p> <p>The third level of training advances participants' understanding of building science to the level of conducting commercial building audits through a three to six-month program in energy efficiency training. Thi</p>

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Lane	Training The Green Workforce	3	Apr 2009	Jun 2010	x			x		x				1,250,000	1,250,000	The Solar Photovoltaic Industry in Oregon is experiencing exponential growth. The limiting factor in PV industry growth is the availability of trained solar PV installers. This proposal provides a consistent location for practitioners, incumbent workers, and entry level participant to learn their trade through a practical field experience. The proposal provides for 100 kW of solar PV to be located at various points across the Lane Community College Campus. The Energy Management Program at LCC manages the State Solar licensing apprenticeship program so there will be a direct connection to the field experience and employment. Project breakdown by site and size: 20 KW roof mounted for BLD 9 Auto Diesel 30 KW roof mounted for BLD 16 and breeze way between BLD 15 and 16. 40 KW for covered parking in Plot L 10 KW for additional pole mounted arrays next to child care 100 KW solar photo voltaic array capacities
Linn Benton	Mechatronics Program Expansion to serve wind, wave and solar energy industries.	1	Jul 2009	Jun 2010		x				x				60,000	60,000	The mechatronics program cross trains technicians in electro-mechanics, electrical engineering, CAD/CAM, computer science, quality control, pneumatics, hydraulics and micro controllers. These technicians work in industries such as renewable energy, food processing, forest products, manufacturing, educational and health care facilities, petroleum, mining, agriculture, aerospace, defense, and telecommunications. While some of the tools, techniques and training covers a wide variety of possible employment paths for graduates, our initial focus has been on manufacturing and production settings. Equipment purchases are required to give students hands on experience working with current technologies in the wind, wave and solar industries to allow them to more readily move into those industries.
Linn Benton	Mechatronics Lab Expansion to serve wind, wave and solar energy industries.	2	Jul 2009	Jun 2010		x			x	x	2400	\$120		288,000	288,000	The mechatronics program cross trains technicians in electro-mechanics, electrical engineering, CAD/CAM, computer science, quality control, pneumatics, hydraulics and micro controllers. These technicians work in industries such as renewable energy, food processing, forest products, manufacturing, educational and health care facilities, petroleum, mining, agriculture, aerospace, defense, and telecommunications. This project expands the existing footprint of the mechatronics lab to an additional 2,400 sq.ft. to accommodate additional training stations, add curriculum and station components in order to add capacity to modify and upgrade the existing mechatronics program into wind and solar energy. This will increase the supply of qualified technicians.

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Linn Benton	Sustainable Infrastructure Demonstration	3	Sep 2009	Jun 2010	x			x	x				350,000	350,000	The college seeks to identify, design, and implement a variety of sustainable energy infrastructure projects that serve as both a way to reduce ongoing energy costs, but also as a way to expand instructional opportunities for students to study real world technology and have working systems to monitor, measure, maintain and evaluate. Projects would include a study of co-generation for boiler systems, installation of photovoltaic systems with inverters, storage, and possible hydrogen generation. New construction was checked above because some of the Photovoltaic installations will be free standing units, serving a dual purpose as shelters or walkway covers. These will not be enclosed structures, so no square footage is provided.	
Mount Hood	Sustainability, Health, & Safety (SHS) Program, Science Division	1	Fall 2009	Jun 2011	x				x	x	1,000	\$80	?	?	80,000	The SHS program will be expanded by the incorporation of Bio-Diesel Training Laboratory and the Sustainable Community Garden to prepare students for careers in field of Green and Renewable Energy. # Students Served - 25
Mount Hood	Sustainability, Health, & Safety (SHS) Program, Science Division	1	Fall 2009	Jun 2011	x			x		x	1,500	\$120	?	?	180,000	The SBA certificate prepares students for the LEED (Leadership in Energy and Environmental Design) certification exam. The SBA program is a 9-month training which covers aspects of designing a structure which can meet the LEED requirements. # Students Served - 35
Mount Hood	Green Building Design Technology: A Less Than One Year Certificate		Fall 2009	Spring 2010		x			x	x			?	?	30,000	Expansion & Retooling: Develop a new less than one year certificate within the existing Architectural Engineering Technology (AET) program. The program would be designed for engineering technicians involved in the design and project management of new and remodeled construction for residential and commercial building. The funds would be used to purchase and integrate Building Information Modeling (BIM) and Autodesk Green Building Studio Software programs into the curriculum; upgrade an existing CAD lab; and support a faculty on part-time basis to develop curriculum in partnership with the industry.
Oregon Coast	Solar Energy Construction Package	1	May 2009	Dec 2009	x			x	To		n/a	n/a		1,000,000	1,000,000	First Priority--Solar Energy Package that would increase the College's Energy Efficiency of the facility and comply with the College's existing Silver LEED Certification \$1,000,000 "Priority criteria for increasing energy efficiency of the instruction's facility and complying with the LEED Green Building Rating System.)  *College has already built a \$17 million dollar central campus LEED facility with local and state funds. It would like an investment from the federal government to employ solar energy in making the building even more sustainable.

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Portland	Sylvania Campus E <sup>6</sup> Strategy for LEED Platinum Renovation	1	Jul 2009	Jul 2013	x	x		x	x	x	900,000	38	3,000,000	31,000,000	34,000,000	<p>This project implements the strategy (our E6 Strategy) of PCC's largest and original campus to achieve LEED Platinum standards. A comprehensive campus developed strategy will integrate numerous technologies proven in new construction with a large community college campus which currently enjoys a blend of developed and natural areas on its 120 acre site.</p> <p>Sylvania's E6 Strategy incorporates key elements that encompass:</p> <ul style="list-style-type: none"> <li>• Energy Creation (solar, wind, and potentially pumped storage)</li> <li>• Energy and Other Resource Conservation and Use Minimization</li> <li>• Environmental Stewardship</li> <li>• Employment Stimulus</li> <li>• Education to Prepare Workers for Green Jobs</li> <li>• Efficient and Effective Use of Project Funds</li> </ul>
Rogue	Limited Energy Apprenticeship, License A and B Program	1	Jul 2009	Jul 2010	x					x	N/a	N/a		5,000	5,000	RCC presently offers training for multiple apprenticeship electrician programs. However, we do not offer training for Limited A and B Electrician Licenses. These low voltage licenses are necessary for installation of energy saving devices and for alternative energy installations. We have been approached by companies who hire Limited Energy Electricians to offer this training.
Rogue	Justice Education and Training Center	1	ASAP	ASAP			x		x		12,300	162		3,000,000	3,000,000	Rogue Community College (RCC) proposes the development of a training and education facility that will directly support criminal justice and related public safety agencies in realizing their full potential to serve their communities and fulfill their respective missions. This facility will serve as the state-of-the-art center to prepare students for careers in municipal, county, state and federal criminal justice and public safety careers as well as prepare them for their successful transfer to a higher level educational institution. It will also serve as the center for regional in-service training and continuing education to meet the needs of law enforcement, corrections and public safety agencies in the College district. This facility will also enable the College to grow existing programs as well as capitalize on new and unique initiatives directly related to promoting homeland security for our citizens. The RCC Justice Education and Training Center will serve our criminal justice community and assist this community in serving workforce development needs in the years ahead.
Rogue	Energy and Resource Management Certificate and Degree Program	2	Jul 2009	Jul 2011		x				x	N/a	N/a		105,000	105,000	RCC must begin offering programs that meet the growing demand for sustainable and renewable energy jobs in southern Oregon. Regional Economic Development indicates that the jobs will arrive with new business targeted for the region. An RCC program that will provide multiple skills necessary for a variety of jobs seems to serve anticipated workforce needs. The budget reflects curriculum and program development with some training delivery. Several Community Colleges are considering similar programs which indicate potential for partnering.

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Rogue	Hydrogen/Diesel Electric Power Generation Program	2	Fall 2009	Ongoing	x	x			x	x				70,000	70,000	1. Teach and perform research on on-site power generation system with a curriculum application to all sources of prime mover input such as diesel/hydrogen, wind and water. 2. Teach and perform research on on-board hydrogen generation systems applicable to over-the-road heavy and mid-range trucks to evaluate emission reductions. 3. Teach mid-range and heavy duty hybrid technology applications on on-site, on and off-road equipment applications. 4. Apply renewable energy systems to current technology to monitor, evaluate, and study fuel consumption reduction benefits of applicable on-board hydrogen generation systems. 5. Teach and employ applicable electronic controls and evaluation equipment as required to monitor, adjust, and evaluate results of emission reductions and fuel savings. 6. The project will be supported by the combined efforts of the Rogue Community College Diesel Technology, Electronics Technology, and Work Force Development Truck Driver Training programs.
Rogue	Alternative Energy Equipment Installer Academy	3	07/01/09	12/01/10	x					x				9,000	9,000	RCC presently offers training for multiple apprenticeship programs. However, we do not offer training for licensed Electricians, Plumbers and HVAC Technicians for the purpose of meeting requirements to install alternative energy equipment. The funding would cover the cost of curriculum development and the training for 60 licensed professionals.
Rogue	Solar Array @ Redwood Campus	4	Aug 2009	Nov 2009	x			x			n/a	n/a		965,000	965,000	Construction of a 75-100 KW solar array on 6 acre land locked parcel of land. To supplement electrical energy needs for the Redwood campus of Rogue Community College. Electrical power would supplement heating and cooling power demands along with parking lot and classroom lighting. In addition, the solar array would provide a onsite hands on resource for alternative energy instructional training.
Rogue	Small Farm Initiative	5	09/01/09	09/30/11	x					x				50,000	50,000	Coordinate and establish connections to "Cultivating Success sustainable small farms education" currently available in Idaho and Washington. The vision of the program is to increase producer and consumer understanding, value, and support of sustainable local farming systems in Oregon through education and experimental opportunities. Partners in this program strive to create strong communities with infrastructures that provide the resources and skills needed to produce local and sustainable food and agricultural products for the residents of the Southern Oregon. This program will establish educational paths for students, current farmers, and the community members interested in establishing small farm operations and self sustaining food production.

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Southwestern	Natural Resources Restoration Curriculum	1	06/15/09	06/30/10	x				x	x	1200	\$225	478,000	?	478,000	Southwestern Oregon Community College has been working with regional, state and local entities, including the Federated Tribes, to develop an educational career pathway to natural resources. The program includes an exploration seminar which introduces high school, college and community members to potential careers in water conservation, watershed issues, restoration, resource policy, fish, wildlife and forestry-based issues. By hiring a full-time program faculty and by working with the Coquille tribe Southwestern will continue its goal to enhance existing courses and develop new courses to support programs in the areas of fisheries and wildlife management, water quality management and environmental management. The Program works to preserve, protect and enhance natural resources including fisheries, wildlife, water, and forest lands. Program activities and functions would include watershed/habitat restoration, fish and wildlife population enhancement and environmental resource management support. The project would include curricular revision and development and natural resources lab refurbishment.
Southwestern	Chemistry Lab Expansion and Improvement	2	06/15/09	09/28/09		x			x	x	1200 sq ft (Chem Lab) 600 sq ft (Preparation Room)	\$224	403,000	?	403,000	Students who start their science education at community colleges are underrepresented in graduate programs at four year colleges. Having a facility that will provide community college students with opportunities to become aware of how technology and science can impact some of the problems that our society faces in the area of the environment, global warming, and energy independence may help them to choose careers that will have a positive impact in these areas. Expansion and improvement of the chemistry lab facility at Southwestern Oregon Community College will help us continue with current enhancement initiatives for our science students to become involved in student research projects in the areas of environmental and green technologies. Expansion of the existing chemistry laboratory curriculum will provide support to ongoing student projects such as using local plants in phyto-remediation of heavy metals in the environment (a project supported by a grant from the National Science Foundation). In addition, new projects such as exploring the potential for local algae to be used in biodiesel production would
Southwestern	Lowering the Cost of Education: Energy Efficient Classrooms	3	06/15/09	09/28/09	x				x			5,000	600,000	?	600,000	Southwestern Oregon Community College Curry County Building To increase energy efficiency and enhance building sustainability, replace and install a new heating and ventilation system, photovoltaic cell roof panels and double-paned, insulated, Low-E windows.

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Southwestern	SOCC Go Green	4	06/15/09	Ongoing	x					x			50,000	?	50,000	In October 2008, the President initiated a campus-wide call to "Go Green" at Southwestern Oregon Community College. Members of the campus community were asked to submit ideas to the President with ways the College could cut costs, reduce environmental impact and raise awareness among employees and students regarding the benefits of green initiatives. In response to this heightened awareness, the College intends to develop workshops for staff, faculty and students where energy-saving, cost-saving ideas are shared and implemented. To support this goal, the proposed project would fund the purchase of indoor and outdoor multi-compartment recycling stations. In addition, funding would be used to coordinate workshops and trainings around use of energy. Service learning projects emphasizing reduction of human and corporate impact on our region and planet will be designed for use within college courses and programs. Ongoing work will be devoted to brand the College with the 'Go Green' theme using the College website, existing publications and programming.
Tillamook Bay	Renovation of First Street College Building	1	06/01/09	12/01/09		x			x		12,479	40.29	None	500,000	500,000	This is primarily the renovation of a college building that was originally constructed in 1960. The project would include the repair and replacement of plumbing, lighting, heating, ventilation and air conditioning, and windows which will increase energy efficiency. The project also includes the repair and overlay of the parking lot which has 66 parking spaces.
Umpqua	Sustainable Teaching Winery	1	3/30/09	10/1/10	x			x			30,000	200	300,000	2,000,000	9,000,000	The Southern Oregon Wine Institute is constructing a LEED Silver certified Teaching Winery on the campus of Umpqua Community College to provide instruction in Enology. The Teaching Winery will incorporate a Wine Incubator, allowing students to make industry scale production of wine for eventual sale to the public. Our request covers the additional capital needed to incorporate the most appropriate green technologies in the winery design, including: - Adoption of solar power - Waste water recycling - Establishment of gravity-flow winery design - Use of underground structures that minimize energy consumption - Promotion of sustainable farming practices Students educated in this facility will enter into the expanding Oregon wine industry with an understanding of the benefits of producing wine in a state of the art, energy efficient winery. In the near term, completion of the project will employ manpower from the construction industry, architectural design firms, equipment production and interior design. The construction project will generate 15-25 full-time construction positions. Additionally, the project
Umpqua	Solar Manufacturing Certificate	2	3/30/09	9/21/09	x					x				75,000	75,000	Umpqua Community College will develop a one-year Solar Manufacturing Certificate as a redesign project of UCC's Digital Systems Technology program. The funding request is for curriculum development, equipment and instructional costs. We project an estimated 15 students to be initially enrolled in the program.

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Umpqua	Green Construction Certificates	3	3/30/09	9/21/09	x					x			95,000	95,000	Umpqua Community College will develop Green Construction Certificates as a package of pathways certificates into a Green Construction Specialist One-Year Certificate or Associate of Applied Science Degree. The certificate will include instruction in green construction regarding: - Remodeling - Lighting - Plumbing - Interior - Foundations  Each pathways certificate would be 12 credits each. Funds are requested for curriculum development, specialized tools and instructional costs. We project an estimated 15 students to be initially enrolled in the program.	
Umpqua	Sustainable Viticulture Instruction	4	3/30/09	6/1/10	x					x		50,000	300,000	350,000	The Southern Oregon Wine Institute at Umpqua Community College is establishing an instructional program for the development and management of sustainable vineyards. The college has entered into a contractual agreement with Low Input Viticulture and Enology, LLC, (L.I.V.E.), an Oregon corporation established to certify the sustainability of vineyard and winery practices. L.I.V.E. has 4,574 certified vineyard acres and 135 certified members in Oregon. Funding from the Recovery and Reinvestment Act will be used to develop curriculum for sustainable vineyard management practices and to support an online/hybrid instructional system. This coursework will be incorporated into the Viticulture and Enology Program at Umpqua Community College, which currently serves 40 students using online/hybrid instruction. The potential to expand the program through distance education technology is a great benefit to the rural communities served by this program.	