



Clean Energy Grant Application

EVERGREEN

THE EVERGREEN STATE COLLEGE

Please read the grant application guidelines prior to submitting your proposal. We will not consider incomplete applications. Completed applications should be e-mailed to the coordinator at cleanenergy@evergreen.edu before the deadline. For questions regarding the application process, contact the coordinator.

Project Title	Energy Innovations Fellowship	
Project Lead	Name:	Scott Morgan
	E-mail:	morgans@evergreen.edu
	Phone number:	867-6913
Student, Staff, Faculty, or Student Group: <i>(staff and faculty please name department)</i>	Office of Sustainability	
<i>Students only</i>	Class standing:	
	Faculty or Staff sponsor:	
Campus Location	Library 3202	
Date	25 April 2012	

Abstract	<p>This is a proposal to fund a paid student fellowship/internship consistent with the Clean Energy Fellowship created by the Clean Energy Committee in 2010. The position is projected to be 19 hours per week for 46 weeks, November 2012 through September 2013 (not including winter break) and would build upon work performed in 2011-12 to develop and implement small-scale renewable energy projects on campus.</p> <p>This position will be supervised by the Director of Sustainability and will work with staff and faculty to continue development of demonstration-scale renewable energy projects across campus.</p>
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CEC Vote: (for office use only)

Proposed Motion	
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Moved:		Second:		
Yes:	No:	Abstain:	Absent:	Recusal:

Please respond to the following sections below. We ask that you present your proposal to the Clean Energy Committee to answer further questions about your project. If your project is funded we require you to publicize your work, and provide the committee with documentation, and a final report.

- If you require more space, please submit any additional documentation with your application.

Areas affected by proposed project: The committee reserves the right to have grant proposal reviewed by an authorized representative from affected areas prior to full review. Please refer to the grant guidelines to see if your project requires authorizations. Contact cleanenergy@evergreen.edu if you have any questions. Be sure to give yourself enough time to communicate with staff and faculty before the deadline. When you receive authorization, type the name of the representative below. Authorization will be verified.

Affected Area		Approval Required	Approval Received
Faculty / Staff Sponsor	Scott Morgan	Always	<input checked="" type="checkbox"/>
Director of Facilities		<input type="checkbox"/>	<input type="checkbox"/>
Environmental Health & Safety Officer		<input type="checkbox"/>	<input type="checkbox"/>
Campus Land Use Committee		<input type="checkbox"/>	<input type="checkbox"/>
Academic Budget Dean		<input type="checkbox"/>	<input type="checkbox"/>
Student Activities Advisor		<input type="checkbox"/>	<input type="checkbox"/>
Science Operations Manager / Organic Farm Manager		<input type="checkbox"/>	<input type="checkbox"/>
Residential and Dining Services		<input type="checkbox"/>	<input type="checkbox"/>

Timeline

- Provide an estimated timeline listing the length of time from start to finish and detailing the length of time that each component will take.

1. Design	N/A	4. Research / Construction	N/A
2. Approval	N/A	5. Present / Report	N/A
3. Procurement	N/A	6. Follow-up	N/A

Detailed Project Description

Please include:

- Project goals
- Definition of sustainability and the relationship of the project to this definition
- Longevity and/or permanence of the project results on campus
- Location, including any concerns that may arise from the chosen site
- Previous experience directing projects of this nature
- If applicable, comparisons to similar projects at other campuses

Description	<p>The goal of this fellowship is to support the development and installation of multiple, small demonstration energy conservation and renewable energy projects on the Evergreen campus. Projects must include:</p> <ul style="list-style-type: none"> • Viable solutions to specific energy use or generation practices that have a high likelihood of demonstrating potential changes to current energy use practices • Comprehensive consideration of social, economic, and environmental costs during the assessment and planning • Planning and strategies for public awareness of and engagement with the demonstration project • Active engagement with the campus community (Facilities, Clean Energy Committee, Sustainability Council, academic programs, student groups) to raise awareness of the demonstration projects <p>The student fellow would focus on developing potential energy conservation and renewable energy demonstration projects for campus. Position responsibilities include:</p> <ul style="list-style-type: none"> • Perform research for innovative ideas/technologies (20% of time) • Propose permanent projects that fit with Evergreen's conditions and needs (10% of time) • Plan project scope, funding, installation, and monitoring (40% of time) • Coordinate project implementation (30% of time) <p>Required Knowledge:</p> <ul style="list-style-type: none"> • Interest and experience (academic or practical) in energy conservation and/or renewable energy technologies • Interest and experience (academic or practical) with planning and coordination of multi-faceted projects (any scale) <p>Required Skills:</p> <ul style="list-style-type: none"> • Public speaking and presentation • Organization and planning <p>Required Abilities:</p> <ul style="list-style-type: none"> • Independently motivated, can work with minimal supervision • Works well in groups
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Campus Connections (Please select all that apply):

	Research	Implementation	Education
Renewable Energy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Resource Conservation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sustainability Strategies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Impact on Campus Sustainability Goals:
Energy, Environmental, Social and Economic Impact**

- How does your project align with the Climate Action Plan or the goal of zero waste and carbon neutrality by 2020?
- How is your project consistent with the mission of the Clean Energy Committee?

<p>Impact on Campus Sustainability</p>	<p>Carbon emissions and carbon neutrality are fundamentally tied to our energy habits; where we source energy and how we use it. Our current energy paradigm provides easily accessible and usable energy for common, every day use, but also creates negative impacts such as highly localized toxic impacts at mines, wells, and power plants, as well as globally significant carbon emissions. While there are clear reasons to change the current paradigm, it is not always clear how and where changes can or should be made. The mitigation of energy related emissions will require a multi-ordinate approach, from the technologies used to source our energy, to how and where the energy is used, and finally to the behaviors and expectations of the users themselves.</p> <p>Evergreen’s carbon neutrality goal includes an educational commitment “...will be a laboratory for sustainability as demonstrated in our operations...” The college’s energy is currently supplied by an infrastructure that is not meant to be front and center in daily life. Students are not required to fire up a woodstove each morning to heat their rooms or cook their meals. Similarly, students, faculty, and staff are not feeding stoves or keeping the lamps fueled and lit in their classrooms or offices. One result, however, of this effectively hidden and reliable infrastructure is that our energy use has become habitual, we don’t think about it until it isn’t there.</p> <p>The first step in changing habitual behavior is to raise conscious awareness of the behavior. I would like to see a number of energy demonstration projects on campus designed to engage people’s awareness of where energy comes from, how it is used, and how our behaviors impact that use. I believe that such work aligns perfectly with the mission and purpose of the Clean Energy Fund and Clean Energy Committee, and it supports the college’s need for educational energy projects.</p>
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Outreach and Education:

The Clean Energy Committee strives to fund projects that will be highly visible and have a positive impact in the lives of the Evergreen students responsible for the clean energy initiative. Approved proposals will be required to publicize their project in press releases and/or presentations, including mention of sponsorship by the Clean Energy Committee. It is also expected that you will present your work at the Synergy Conference, the Science Carnival, or another public presentation approved by the committee. With that focus, please address the following:

- visibility of the project to students and the greater evergreen community
- role that students will play in the project
- opportunities for involvement in classroom curriculum
- media outreach opportunities
- any additional information on methods the project will use to educate and engage students and the public about clean energy technologies and resource conservation.

<p>Outreach and Education</p>	<p>At least three types of projects are likely to be developed:</p> <ul style="list-style-type: none"> • Physical installations that may be easily identified, whether visually or otherwise • Institutional changes in practices or infrastructure that might not be readily apparent to observers • Individual behavioral projects that require long-term commitments to engagement and support <p>Because of the differences in projects, outreach and education requirements will vary accordingly. Outreach and education may include the following (where appropriate):</p> <ul style="list-style-type: none"> • Informational signage or interactive feedback systems mounted near physical projects • Easily accessible (web based preferred) monitoring of energy production, use, or savings • Web based project pages including background research, rationale, images, location(s), and other project specific information as appropriate • Active engagement with faculty and academic programs • Reports to campus groups, including the Clean Energy Committee, the Sustainability Council, and/or academic programs or student groups • Internship/Fellowship summary for the Clean Energy Committee archives • Project specific planning for long-term project engagement or learning opportunities
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Budget and Fundraising

Please include:

- A detailed budget for the full project costs, including initial costs and life-cycle operation and maintenance costs.
- Detail both the specific budget items and the total funding amount being requested, and include support documentation.
- If the Clean Energy Committee does not fund the full requested amount, will the project be able to move forward?
- List any grants or other sources of funding that have been obtained or applied for. If these funds are limited to a certain component of the project, please specify
- NOTE: Preference will be given to those projects that seek additional funding from other sources. This priority is given to encourage cost sharing and to allow the funds available to support a greater number of sustainability projects on campus.

Budget	<p>This position is scoped to work 46 weeks at 19 hours per week (874 hours). I propose that the position pay \$13.50/hr, consistent with the breadth of knowledge, skill, and ability required. Total cost is projected to be \$12,036.</p> <p>Salary = \$13.50/hr x 19 hr/wk x 46 wk = \$11,799 Worker's comp/L & I = 2% of salary = \$236 Total = \$12,035</p> <p>Timeline:</p> <table> <tr> <td>Announce position</td> <td>September 2012</td> </tr> <tr> <td>Interview and select</td> <td>October 2012</td> </tr> <tr> <td>Position starts</td> <td>November 1, 2012</td> </tr> <tr> <td>Position ends</td> <td>September 30, 2013</td> </tr> </table>	Announce position	September 2012	Interview and select	October 2012	Position starts	November 1, 2012	Position ends	September 30, 2013
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Cost Summary Including Tax

Goods and Services	
Equipment	
Labor and Maintenance	
TOTAL PROJECT COST ESTIMATE	\$12,035