## **Clean Energy Committee Award Application [#14]**

Wufoo [no-reply@wufoo.com] **Sent:**Thursday, May 29, 2014 8:48 PM

To: Clean Energy

Today's Date	Thursday, May 29, 2014
Project Name *	TESC Aquaponics Greenhouse
Name of Project Lead	Andrew Vanderhoof
A Number *	
Phone Number *	
Project Lead Email *	
Faculty or Staff Sponsor *	Liza Rognas
Campus Location	Organic Farm- Aquaponics Greenhouse
Award Amount Requested	\$1,698.59
Department that will oversee the grant (You will need a letter of support or conformation email to be present to the CEC at your award hearing or attached below) *	Student Activities
Choose an award type that most relates to your project	Large-Scale/Long-Term Project
Please select each category your application relates to; You may select more than one.	Education – Sustainable Strategies

## **Project Description**

This application is for continuation funds for the aquaponics greenhouse. The aquaponics greenhouse has been up and running for two academic school terms, has been a living learning lab for many students and has been hosts to over 1000 tour guests. The budget includes both the minimum items required for running the system for a year, which includes fish food and water quality testing supplies. The other main portion of the budget includes items to reduce heat loss and energy use and increase ability for student use during the colder months. The last part of the budget is for small replacement parts for an important pump and an emergency repair and replacement item fund.

Project Timeline Please describe the timeline for your project from the start to completion	To be used Summer 2014 – Summer 2015
Metrics Please describe how the success of this project will be measured; i.e. \$'s saved on energy, # of students educated, lbs. of waste diverted	The metrics we are collecting include water testing data, nutrient loads, we also track how many people are educated about Aquaponics and sustainable food production systems by tracking how many visitors and tours and visitors to the website.

from the waste stream, etc.

In 140 words or less please describe how your proposal aligns with 'Sustainability'

Aquaponics is a food production method which combines raising fish and growing plants. This uses significantly less water and takes up less space than conventional farming. This conserves water, reduces the distance food has to travel, which in turn reduces energy use and carbon footprint and provides a more sustainable food production solution than both Aquaculture and Hydroponics. Using an outdoor greenhouse we also reduce our need to use artificial light.

In 140 words or less please describe the continuity of this project. In other words, how will this project function over the long term? This project has been running continuously as a learning lab since the original grant award. There are currently 5 people currently working on the project. All of whom have plans to continue next year. Andrew has been working in the greenhouse for over a year and will continue next year. Nick Wooten who has been working with the project for over two years is planning will be the lead intern in the greenhouse 2014–2015. Multiple students are planning on doing both regular credits and upper division science contracts utilizing the system.