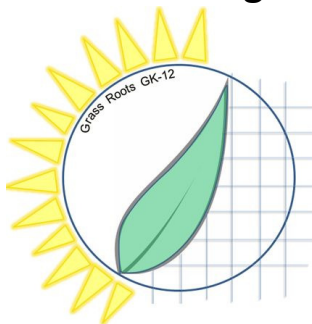


ADVANCING EDUCATION IN RENEWABLE ENERGY AND CLEANER FUELS GRASS ROOTS GK-12 PROGRAM, CORNELL UNIVERSITY

2012-2013 Program



PROGRAM OVERVIEW

The NSF funded Grass Roots GK-12 Program provides MS and HS physical science and engineering teachers:

- A 5-week summer program (July 2nd – August 3rd, 2012) at Cornell University that includes:
 - Participation in an original research project under the supervision of a GK-12 graduate student Fellow
 - Faculty lectures and lab tours regarding state-of-the-art renewable energy research (solar, biomass, fuel cells, batteries, and carbon capture strategies)
 - Developing renewable energy-related hands-on modules for teaching MS physical science and/or HS conceptual science/chemistry/physics/engineering in collaboration with GK-12 graduate student Fellows
- Assistance from a Cornell GK-12 graduate student Fellow to spend time in your classroom over the course of the 2012/2013 school year for 10-20 classroom hours to a) share their love of science and renewable energy research with your students and b) present the energy modules created by the program in the classroom

The suite of renewable energy modules to be created by the Grass Roots program will be designed by these teacher-Fellow teams to fit into your NY state-mandated science/engineering curriculum and will be science process skill-driven, consistent with the Next Generation Science Standards (NGSS) currently under development for K-12 education nationwide.

Teachers will be awarded a professional development certificate for the program participation hours OR graduate credits from Cornell University. Tuition and fees are paid by the Grass Roots program.

PROGRAM DETAILS

- Summer Stipend:
 - \$3400 and professional development certificate OR
 - \$3000 and 3 credits of graduate coursework, e.g., towards a Master's degree.
- Mileage reimbursement for project related travel and/or lodging reimbursement up to \$700
- School year stipend: Up to \$800 to build/refine energy modules in collaboration with GK-12 fellow
- Equipment/supplies/curricular materials for energy modules: reimbursed up to a total of \$400

Grass Roots: Advancing Education in Renewable Energy and Cleaner Fuels

National Science Foundation-funded program to bring together Cornell Graduate Fellows and K-12 Teachers

Program Application

Teacher Information:

Applicant's Name: _____
Last First

Home Address: _____
City State Zip Code

Phone: _____ Email: _____

Current Position/Title: _____

Degree(s), Major(s) and Years Received: _____

Certifications: _____

Courses Taught:

Years	Name of Course	# of Sections	Grade Level
2010-2011			
2011-2012			
2012-2013 (Expected)			

Completion of the enclosed information is voluntary. This information is requested by the National Science Foundation (NSF) to determine how well the program serves all segments of the diverse population.

Gender: Male Female

Race/Ethnicity: African American Asian/Pacific Islander Caucasian
(Check all that apply) Latino/Hispanic Native American Other (specify): _____

SCHOOL/INSTITUTION INFORMATION:

School/institution: _____

Address: _____ City: _____ State: _____ Zip: _____

Locale: Urban Suburban Rural Total enrollment _____ Grades _____

THE INFORMATION IN MY APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

Applicant's Signature _____ Date: _____

Enclosed are application, résumé statement of purpose, 3 recommendations

Grass Roots: Advancing Education in Renewable Energy and Cleaner Fuels

National Science Foundation-funded program to bring together Cornell Graduate Fellows and K-12 Teachers

The following materials must be submitted for your application to be considered:

- The program application
- A statement of purpose explaining why you want to attend the program, your interest in alternative energy and, most importantly, describe how energy fits in your curriculum.
- A résumé that includes your educational background, employment history, awards, and a list of your attendance or participation in conferences, workshops, and courses.
- Two letters of recommendation from professional colleagues or school administrators.
- One letter of recommendation from a former student.

Application deadline: Preference will be given to applications received by April 10th, 2012.

Notification deadline: May 15th, 2012.

FURTHER INFORMATION

For further information about the Grass Roots GK-12 Program, contact:

Eva Luna

Assistant Program Manager, Grass Roots GK-12 Program.

Telephone: 607 255-6514

Email: ejr89@cornell.edu

All materials must be mailed to:

Eva Luna

Engineering Teaching Excellence Institute

College of Engineering, Cornell University

167D Olin Hall

Ithaca, NY 14853-7601

Phone: 607 255-6514

Fax: 607 255-9297