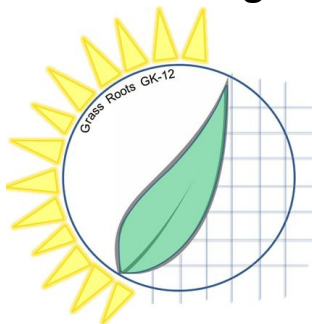


# ADVANCING EDUCATION IN RENEWABLE ENERGY AND CLEANER FUELS GRASS ROOTS GK-12 PROGRAM, CORNELL UNIVERSITY

## 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 graduate course credit.
- 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 10<sup>th</sup>, 2012.

**Notification deadline:** May 15<sup>th</sup>, 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](mailto:ejr89@cornell.edu)

All materials must be mailed to:

Eva Luna

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Ithaca, NY 14853-7601

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