

2010 CERET Renewable Energy Train the Trainer Academy Solar Electric (Photovoltaic) Education and Training

July 25-30, 2010 at Solar Energy International, Paonia, CO

Instructions

By **March 1, 2010**, submit this application and one letter of recommendation as specified in Part E. Please note that late or incomplete applications may not receive full consideration.

To complete the application, please save this application form as a Word, WordPerfect, or RTF file. Add space as needed as you input your responses. Send your completed application by e-mail attachment , fax, or mail to Cynthia Treige-Onofrey at CERET: (see part E)

Part A — Contact information

Your Name:

Name of College or High School:

School Address:

School Phone:

Fax:

E-mail:

School Administrator (Name & Title):

Your Home Address:

Home Phone:

Home E-mail:

Part B - Education & Experience

Educational background (see Part E criteria):

Institution(s)	Major/minor(s)	Year of graduation
Undergraduate:		
Graduate:		

Teaching background (see Part E criteria):

School name	Courses taught	Dates

CERET Academy Application Form

Part B (Cont.) - Energy Experience and Pre-Requisite Knowledge

Please document your experience and pre-requisite knowledge here, adding space below each question as needed.

1. In order of importance to you, list the energy technology, science, math, and/or other related technology courses that you teach or have taught in the past three years.

2. List and briefly describe your prior experience with solar electric (photovoltaic) systems.
(Note that prior experience with these systems is a pre-requisite for selection for this program. If you do not have any prior experience, please contact the project organizers, to see if you could be included in a future workshop.)

3. List or describe any other energy-related work experience that you have.

4. Describe your involvement in any other energy-related activities (school, work, community, regional, research, etc.).

Part C - Academy Outcomes

Describe how your professional experiences would contribute to the achievement of the following 2010 CERET Renewable Energy Academy outcomes: Please respond here in paragraph style, adding space as needed.

Outcome 1

This academy will focus on professional development for high school and two-year college instructors that teach solar energy technology. Participants will gain hands-on experience installing solar electric systems in a real-world environment.

Outcome 2

Participants will evaluate existing educational practices and instructional materials in solar energy technology. They will recommend and/or develop teaching strategies and learning materials that can be used in their own classroom, and by others in similar disciplines.

Outcome 3

Participants will develop and implement an action plan to pilot new instructional materials in your classroom. They will report to CERET on their effectiveness to help identify best practices in solar energy education.

Part D - Criteria for selection

Selection of CERET Renewable Energy Academy Participants shall prefer (but not be limited to) the following criteria:

1. Education or Training: Associates degree, baccalaureate degree, and/or industry-specific training in the following:

- **Energy Technology:** (e.g., electrical technology, architectural technology, building management, construction and/or electrical trades, industrial maintenance, etc.)
- **Science or Engineering** (chemistry, physics, electrical engineering, mechanical engineering, etc.)
- **Science Education or Technical Education**

2. Current Employment:

- As a faculty member at a two-year college or a high school. (Note: adjunct instructors who also are in an energy technology industry/profession are eligible.)
- Affiliated with a high school or 2-year college system as an educational specialist (e.g., instructional/curriculum designer, professional development specialist) *and* experienced in teaching science, mathematics, or technology education.

3. Experience:

- At least three years teaching energy/environmental technology, science, math, or related technology education.
- Documented prior knowledge, work experience, and/or training with **solar electrical systems** and familiarity with the **National Electrical Code** is required. (*examples could include academic coursework in solar and renewable energy, employment in a solar business, or training through providers such as Solar Energy International, The Midwest Renewable Energy Center, the Florida Solar Energy Center, the Sustainable Living Institute, etc.*)

Applicants shall submit *one letter of recommendation* from an educational colleague/administrator addressing any two of the criteria in #4 below. (Note: Experience that combines being an educator and industry worker is valuable)

4. Demonstrated Abilities

- Demonstrated energy technology leadership (e.g., in education, work, research, issues);
 - Demonstrated communication skills and teamwork skills;
 - Demonstrated experience in developing and implementing practical hands-on teaching and learning strategies.
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Part E - Certification of Experience

Applicant's Certification:

I understand that if I am chosen to participate in the 2010 CERET Academy, I *shall commit* to:

- Prepare** for the academy by completing readings and assignments,
- Participate** in group activities and projects during the academy;
- Contribute** to the creation of curriculum for teaching solar electricity topics
- Share** best practice teaching ideas with other academy participants
- Create** a unit plan to incorporate solar electricity into the courses that I teach
- Provide** feedback to the CERET program on the impact of the academy on teaching and learning **Your name:**

Signature: _____

Date: _____

Dean's or Principal's Certification:

I have reviewed _____'s application to the 2010 CERET Academy and fully support his/her participation. I understand that during the upcoming school year my employee 1) might apply a teaching and learning strategy related to the CERET Academy and *appropriate to his/her teaching assignment and students*, 2) provide the CERET program with aggregate, anonymous, demographic information on students impacted.

Dean or Principal Name: _____

signature

date

Title: _____

Phone: _____

email: _____

Deans and Principals: We welcome your questions about the CERET Academy. Please feel welcome to contact the Principal Investigator for this NSF-sponsored project, Dr. Kenneth Walz (kwalz@matcmadison.edu).

CERET endorses the principle of equal educational and employment opportunities for all people, regardless of race, color, sex, religion, ancestry, national origin, sexual orientation, age or non-job related handicap or disability. Furthermore, CERET does not discriminate on the basis of race, color, sex, religion, ancestry, national origin, sexual orientation, age or non-job related handicap or disability in the educational programs or activities it operates.

Please send materials for this application to: Cynthia Treige-Onofrey

Email attachments: CTreige-Onofrey@matcmadison.edu

Fax: 608-246-6880 – (please include a cover page labeled: CERET, Cynthia Treige-Onofrey)

Postal mail: CERET, Madison Area Technical College, 3550 Anderson Street, Room 222, Madison, WI, 53704

(Notes: On an e-mailed attachment, your typed name originating from your own e-mail address is considered your signature. If faxing or mailing a handwritten application, legibility is mandatory. Please keep a copy of your original application for your records. Applicants will be notified of selection by March 15, 2010.)
