

Program Overview

- a. The program will occur for eight weeks each summer (2012-2014) with teachers participating in one, two, or all sessions.
- b. Participants will complete research component and a curriculum development component.
- c. Research activities will be conducted with faculty at the University of Notre Dame in state-of-the art laboratory facilities.
- d. Teachers will be matched with research mentors based on project interests.
- e. Participants will receive a salary stipend, parking and human resource considerations. ACE teachers will receive housing and travel as needed.
- f. High school (grades 9 -12) science, technology, engineering or math (STEM) teachers are encouraged to apply. Middle school (grades 7 & 8) teachers with strong backgrounds in STEM will also be considered.



CENTER FOR SUSTAINABLE ENERGY
AT NOTRE DAME

Providing readily-available, inexpensive, and non-polluting energy is arguably humankind's greatest challenge for the 21st Century. The Center for Sustainable Energy at Notre Dame (cSEND) is addressing this challenge with state-of-the-art research and education programs in safer nuclear waste storage; cleaner fossil utilization; CO₂ separation, storage, and use; energy efficiency; solar and wind energies; biofuels; and the social, political, and ethical aspects of energy policy and use.

For More Information,
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The Center for
Sustainable Energy at
Notre Dame (cSEND)
presents:



Engineering a More Sustainable Energy Future

June 11 – August 3, 2012

A Research Experience
for Teachers Site



<http://ret.nd.edu>

RET Site: Engineering a More Sustainable Energy Future



Former RET@ND participants

Participant Eligibility

Teachers from the following school districts are eligible to participate:

- South Bend;
- Mishawaka;
- Penn-Harris-Madison;
- Elkhart;
- Michiana area districts; and
- Teachers who have graduated from the Alliance for Catholic Education (ACE) program.

Former RET participants and members of under-represented groups are strongly encouraged to apply.

High school teacher applicants should have a background and interest in science, technology, engineering or math (STEM).

Middle school teacher applicants with strong STEM backgrounds will also be considered.

Participant Benefits

- Learn new skills through a mentored research experience in energy-related areas
- Develop new curriculum materials for classroom use with guidance, individually and through work groups
- Bound copies of and electronic access to all curricular materials generated by RET participants
- Support from RET administrators and faculty mentors following the summer experience
- Salary stipend (\$875/wk on campus), parking, and human resource considerations
- ACE teachers – due to distance from home, travel and housing will be provided. Also, weeks one and two will be conducted virtually, with your first work day on campus being June 25



Home of cSEND
Stinson-Remick Hall

Representative Research Topics

- CO₂ separation and utilization,
- Artificial photosynthesis/solar to fuels,
- Safer nuclear waste disposal,
- Biofuels production,
- Biological fuel cell technologies,
- Reduction of energy use in manufacturing processes,
- Improved grid technologies

To Apply:

- Interested teachers must apply online at the RET@ND website: <http://ret.nd.edu>
- Applications will be accepted January 15 – March 15, 2012.
- Applicants will be notified by April 15, 2012.

Further information about the RET can be found on the RET website!