



NSF Summer Research Experiences for Teachers (RET) Opportunity
For Seventh to Twelfth Grade Teachers in
Civil Infrastructure Renewal & Rehabilitation
June 23 through Aug 1, 2008

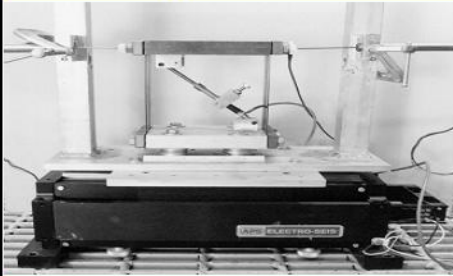


NSF Grant EEC-0601960

What research projects can you participate in?

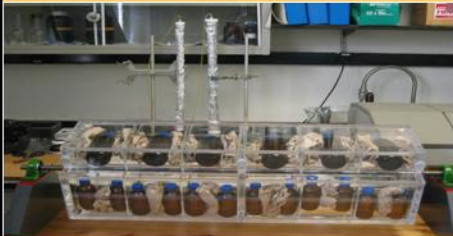
One of the following four projects:

Buildings That Resist Earthquakes Better



Energy-absorbing and base isolation devices to make buildings safer

Availability of Safe Drinking Water



Membrane technology to produce more high quality potable water

Clean Diesel Technology to Reduce Air Pollution



Use of biodiesel and diesel oxidation catalyst in air pollutant reduction

Mobility and Safety of Transportation Systems



Simulations to solve surface transportation problems

What is the goal of the NSF RET Program?

Facilitate professional development of science and mathematics teachers through cutting edge laboratory and field research

What are the additional goals of the UC-RET program?

- To educate, to nurture, and to facilitate scientific inquiry
- Teachers become better STEM career role models
- Students link their education to issues related to civil infrastructure renewal and rehabilitation

What are the professional development features of the UC-RET program?

- Six week immersion in research
- Research guided by engineering faculty and graduate research assistants
- Collaborative team planning and work
- Four field trips to engineering projects
- Seminars led by engineering and education faculty and professional engineers
- Guidance on preparing modules/activities/lesson plans
- Presentations and technical report preparation support
- Lesson plan and poster preparation
- Four quarter hours of professional development credit
- Opportunity to participate in a Post-RET "Teacher Leaders" Program

Who is eligible to participate?

- Twelve 7th to 12th grade mathematics and science teachers will be selected to participate
- People with handicaps will be accommodated; women and minority candidates are strongly urged to apply

What monetary benefits will it provide?

- Stipend of \$4500 for summer and \$1500 during school year
- Laptop on loan until post-RET implementation
- Tuition for all professional development credits given
- Supplies to conduct research projects
- \$100 support for Post-RET classroom implementation
- \$125 support for presentation at professional meeting after RET (additional funds may also be available)

Whom to contact for more information?

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What is the timeline for selection?

- Submit online application & recommendation letters as soon as possible.
 - Interview process begins by February 15, 2008
 - Selected candidates informed by March 15, 2008 and until all positions filled
- For more information and to apply online, visit : www.eng.uc.edu/STEP/ret*

