

# UT Arlington RET Site on Hazard Mitigation

Funded by the National Science Foundation's Research Experience for Teachers in Engineering Program

([www.uta.edu/ce/ret](http://www.uta.edu/ce/ret))



## 2010 Program Application – Teacher

Please note that this program requires a 12-month **commitment** (including a summer research program during June 25, 2010 - August 11, 2010). In addition, two full-day workshops and classroom observations and surveys will be required **during the academic year**.

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

School Name \_\_\_\_\_ Principal \_\_\_\_\_

School Address \_\_\_\_\_

City \_\_\_\_\_ Zip \_\_\_\_\_ Work Phone \_\_\_\_\_

Home Phone \_\_\_\_\_ Preferred Phone \_\_\_\_\_

Email Address (This is where all electronic communications regarding the program will be sent.) \_\_\_\_\_

### Race (Select one or more)

- ☐ White
- ☐ Black or African American
- ☐ Asian
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ Native American
- ☐ Other

### Gender (Select one)

- ☐ Male
- ☐ Female

### Disability Status (Select one or more)

- ☐ Hearing Impairment
- ☐ Visual Impairment (other than minor vision correction)
- ☐ Mobility/Orthopedic Impairment
- ☐ Other
- ☐ None

### Ethnicity (Select one)

- ☐ Hispanic or Latino
- ☐ Not Hispanic or Latino

Please check here if you do not wish to provide any of the above demographic information. ☐

### Educational Background (Please list in reverse chronological order)

Degree	Subject Area	University	Year

How many years have you been teaching? \_\_\_\_\_ Which grade level (s) do you currently teach? \_\_\_\_\_

What courses did you teach in 2009-2010?	What courses will you likely teach in 2010-2011?

Are you willing to commit to the program for 1 summer and conduct a workshop for other teachers at your school to share what you learned?

Yes ☐ No ☐

Do you engage in significant extra-curricular activities during the school year or summer?

Yes ☐ No ☐

If yes, please specify type and approximate number of hours spent per week:

Will you be able to attend required workshops on Sept. 22, 2010 and April 11, 2011, and allow student surveys and classroom observation during the academic year?

Yes ☐ No ☐

Will you be teaching summer school?

Yes ☐ No ☐

Research projects will fall into the following categories. Please indicate your interest in order of preference (#1 indicating highest preference):

Project Area	Hazard Type	STEM Teacher Background	Time	Preference
Expansive Soil Heave Damage and Earthquake Research	Soil Expansion, Earthquake	Math, Chemistry, Physics, Environmental Science	a.m. or p.m.	
Air Dispersion Modeling: Planning for Airborne Terrorism Releases in DFW	Air Pollution Dispersion	Environmental Science, Math	a.m. or p.m.	
Effect of Extreme Event Wind Loads on Structures	Hurricanes, Tornadoes	Math, Physics, Engineering Technology	a.m. or p.m.	
Hydrology: Planning for Extreme Events	Flood Control	Math, Physics, Engineering Technology	p.m.	
Hacker Detection: Evaluation and Improvement	Cyber Security	Physics, Chemistry, Biology, Math, Computer Science (familiarity with computers)	p.m.	
Power System Blackout and Restoration	Power Grid Failure	Math, Physics	a.m. or p.m.	

**Explain why you feel you are a strong candidate to participate in this program.**

**Describe how you expect to use this knowledge in your classroom.**

**Describe the flexibility you will have to integrate hands-on engineering activities into your classes.**

**In addition to this application, please send the following:**

1. **A current resume**
2. **A letter from your principal** committing 2 days release during the academic year (Sept. 22, 2010 and April 11, 2011) – see form letter on website at: <http://www.uta.edu/ce/ret/prospective.php> .
3. **Two reference letters**
4. **A sample lesson plan**, with handouts and any associated textbook readings that you are willing to adapt to include engineering concepts.

**Applicants must provide all the required information and supporting materials to receive full consideration.**

Applications must be received by the UT Arlington Civil Engineering Department no later than **5 p.m. on Friday, May 7, 2010**. Applications may be e-mailed to Judy Morris at [jamorris@uta.edu](mailto:jamorris@uta.edu) or mailed to: Judy Morris, Dept. of Civil Engineering, Box 19308, University of Texas at Arlington, Arlington, TX 76019.