



Research Experience for Teachers



UNIVERSITY OF
Cincinnati

**NSF Summer Research Experiences for Teachers (RET)
Opportunity for Secondary (grades 7 – 12) Math and Science Teachers
on Challenge-Based Learning and Engineering Design
Process Enhanced Research Experiences
for Middle and High School Teachers**

Research Projects Include:

Project 1: "Catalytic Electrode Coatings for Removal of Pesticides from Drinking Water in Ozonation/Electrolysis Treatment Systems"

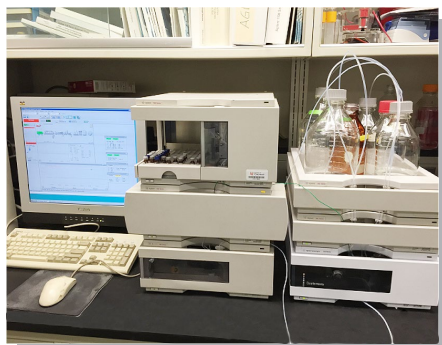
Project 2: "Identification and Measurement of Metal Complexes in Solutions for Alternative Energy Development"

Project 3: "Generation of Renewable Energy from Food Waste"

Project 4: "Enhancing Decision Making Emulating Human Reasoning"

Project 5: "Reducing Freeway Emission Via Ramp Metering Control"

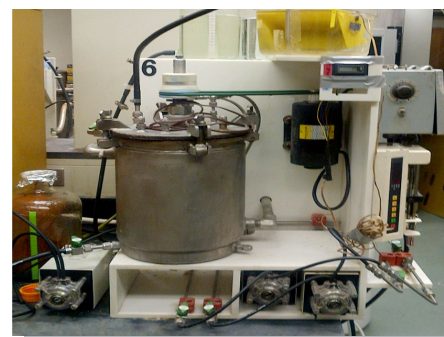
Project 6: "Secure Cyberspace"



High Performance Liquid Chromatograph



Ramp Metering System: Simulated and Actual



Reactor Test Vessel For Food Waste

Benefits of being a RET Teacher?

- \$6000 and a laptop for participation in 2015 RET Site for the 2015-16 academic school year
- 7-week RET program, from **June 15th – July 31st** including research, coursework, and PD workshops and seminars
- Mentored by a RET Resource Teacher
- Create a Unit that utilizes challenge based learning and the engineering design process
- Participate in professional opportunities presenting at the annual STEM Conference and/or presenting papers at other regional and national conferences

Apply NOW! if you are interested in this tremendous professional leadership opportunity! *Don't miss out!*

For more information go to:

<http://www.ceas3.uc.edu/step/ret/archive/2015/>

Email the application packet to:

futurescience.uc@gmail.com

Application deadline is **January 16, 2015.**

Questions? Contact: Debbie Liberi

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