project RET Research Experience for Teachers

University of CINCINNATI

NSF Summer **R**esearch **E**xperiences for **T**eachers (**RET**) **Opportunity** for Secondary (grades 6 – 12) Math and Science Teachers and Community and Two/Four Year Associate Degree College Faculty Members on **"Engineering Design Challenges and Research Experiences for Secondary and Community College Teachers"**

Research Projects Include:

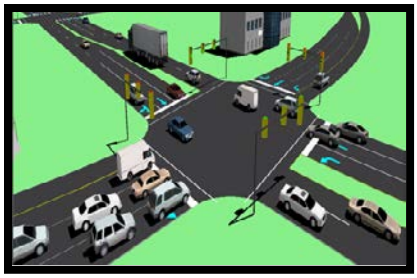
Project 1: Engineering Aligned, Bioactive Polymers for Peripheral Nerve Repair, Dr. Greg Harris

Project 2: Energy Storage Devices for Wearable Electronics, Drs. Vesselin Shannov and Noe Alverez

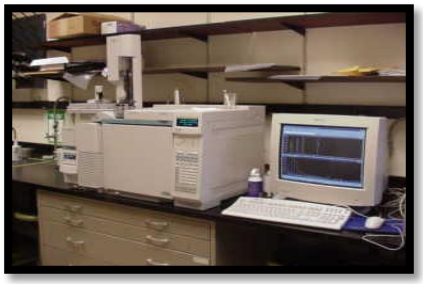
Project 3: Bio-Inspired Artificial Intelligence, Drs. Jeffrey Kastner and Mannish Kumar

Project 4: Modeling of Signalized Intersection Design and Impacts, Drs. Heng Wei and Julian Wang

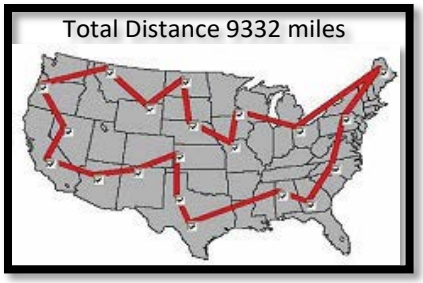
Project 5: Secure Software Development, Dr. Nan Niu



Signalized Intersection Design



Gas Chromatograph With Mass Spectrometry



Travel Salesman Problem

Benefits of being a RET Teacher?

- **$6000 and a laptop for participation in 2019 RET Site for the 2019-20 academic school year**
- **7-week RET program, from Monday, June 10th through Friday, July 26th including research, coursework, and PD workshops and seminars**
- **Mentored by a RET Resource Person and RET Engineering Education Resource Person**
- **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**

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

For more information go to:
https://www.ceas3.uc.edu/ret/archive/2019/ret/

Email the application packet to:
BuchanII@ucmail.uc.edu

Application **deadline** is Friday, **January 25, 2019.**

Questions? Contact: Lora Buchanan
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