

### Faculty Member Contact Information

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**Department:** Chemistry

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### Description of the URCA Assistant Position

This posting includes one funded position. In addition, the faculty member may be willing to mentor additional, unfunded students.


**How many unfunded students is this professor taking in addition to his/her one funded student?**   2  


(Students, if the faculty member will have both funded and unfunded students, he or she is free to select which student receives the funding. Funding cannot be split up between multiple students; only one student will receive it.)


Two students may receive funding for this position.

**Which of the following apply to this position?**

This position is **only** open to students who have declared a major in this discipline. **M**

This project deals with social justice issues. 

This project deals with sustainability (green) issues. 

This project deals with human health and wellness issues. 

**How many hours per week will your student(s) be required to work in this position?**   10  

(Minimum is 6 hours per week; typical is 9.)

**Will it be possible for your student(s) to earn course credit?**  Yes  No

**If yes, in which course?** CHEM 296, 396, 496

**If yes, for how many credit hours?** 1 or 2

**Location of research/creative activities:** Department of Chemistry

### **Brief description of the nature of the research/creative activity:**

We study H-tunneling effect in solution organic H-transfer reactions and compare the results with those from the enzymatic reactions. This will provide insight into the chemical and physical mechanisms of both the solution and enzymatic reactions.

### **Brief description of student responsibilities:**

My student will do organic synthesis, kinetic determinations, and mechanistic analysis for organic reactions.

**URCA Assistant positions are designed to provide students with *research or creative activities* experience. As such, there should be measurable, appropriate outcome goals. What exactly should your student(s) have learned by the end of this experience?**

At the end of the semester, my assistant will be able to find scholarly papers, master basic organic synthesis techniques, use conventional analytical instruments and solve basic problems that they would encounter in their possible future chemical research.

### Requirements of Students

**If the position(s) require students to be available at certain times each week (as opposed to them being able to set their own hours), please indicate all required days and times:**

The research time for this project is flexible.

**If the location of the research/creative activities involves off campus work, must students provide their own transportation?**

N/A

**Must students have taken any prerequisite classes? Please list classes and preferred grades:**

I require my students to have taken chemistry courses up to Chem241A, Chem241B and Chem245.

**Other requirements or notes to applicants:**

None