





Faculty Member Contact Information

Name	Dr. Yun Lu
Contact Info	
SIUE Email	yulu@siue.edu
Campus Box	1652
Department	Chemistry

2 Unfunded URCA Assistants

X	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.	
	This project deals with community outreach.	
	This mentor's project is interdisciplinary in nature.	I

Are you willing to work with students from outside of your discipline? If yes, which other disciplines?

- No

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

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

- 6-9 hours

Will it be possible for your student(s) to earn course credit?

- Yes—CHEM 296, 396, 496 (0-2 credit hours)
- CHEM 296 can be 0 credit hours

Location of research/creative activities:

- SW 3015

Brief description of the nature of the research/creative activity?

We do organic synthesis and determine the rate of the organic reactions relevant to those in enzymes. We study the organic reaction mechanisms, and compare the kinetics of the reactions with those of the enzymatic reactions to provide insight into how proteins promote the reactions chemically and physically.

Brief description of student responsibilities?

Organic synthesis

Determine the rate of the 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?

Students will learn techniques to synthesize the organic compounds and the methods to determine the reaction mechanisms. Students will also learn safety procedures in chemistry labs. Students will learn to summarize results and prepare and do poster/oral presentations as well.

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:

- Time 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:

- Have taken Chem241B and Chem245 with grades B and above

Other requirements or notes to applicants:

- N/A