

Faculty Member Contact Information

Name	Sarah Luesse
Contact Info	
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Campus Box	1652
Department	Chemistry

1 Funded, 3 Unfunded URCA Assistant

	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?

Yes

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)

8-10 h

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

Yes CHEM 296/396/496 0-2

Location of research/creative activities:

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

The student will work in a chemistry research laboratory, gaining experience with common synthetic organic techniques as we work to develop new reaction methods. This project involves setting up reactions, purifying products, and analyzing obtained data related to new chemical reactions. The focus of this project is the development of multicomponent coupling reactions (MCRs), which have applications for the preparation of biologically active chemical scaffolds.

Brief description of student responsibilities?

My Assistant will be responsible for working alongside the research mentor and peers in the laboratory, setting up reactions and analyzing products. The Assistant will perform literature searches for related procedures, and then apply these methods in the lab. The student will be responsible for keeping a complete record of the findings, complying with all safety procedures, and performing hands-on experimentation in the lab.

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?

Yes

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:

Students need to have at least two uninterrupted blocks of time (3-4 hours) available during the week.

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:

CHEM 121A/B, CHEM 125A/B, CHEM 241A/B, CHEM 245 (and earned at least a B in all)

Other requirements or notes to applicants:

Preference will be given to applicants interested in participating in at least two consecutive semesters of laboratory research.