





Faculty Member Contact Information

Name	ZQ Lin
Contact Info	
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Department	Environmental Sciences and Biological Sciences

1 Funded, 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.	
X	This project deals with sustainability (green) issues.	
X	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)

9

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

ENSC 499 1

Location of research/creative activities:

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

Selenium is an essential nutrient element for humans and animals. The objective of this research project is to determine the transport and fate of selenium in the soil-crop system with long-term fertilization treatments. Concentrations of selenium in crop and soil samples will be determined, and the bioaccumulation of Se in grains will be quantified in relation to different fertilizer treatments.

Brief description of student responsibilities?

Sample preparation (grinding and acid-digestion) and chemical analyses of selenium in plant tissues and soil samples using advanced analytical instruments.

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?

The URCA assistant will become familiar with commonly used laboratory research methods and gain valuable research experience through various hands-on research activities. At the end of semester, the student will be able to give a scientific research presentation at a regional conference or for the senior assignment requirement.

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:

N/A

Other requirements or notes to applicants:

Junior or Senior status with GPA of above 3.0