





Faculty Member Contact Information

Name	Dr. Jie Dong
Contact Info	
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Department	Chemistry

1 Funded, 3 Unfunded URCA Assistant

	This position is ONLY open to students who have declared a major in this discipline.	M
X	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, my project is truly interdisciplinary, please also mark me as interested in taking students from these areas: Engineering, Biology, Environmental

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?

- Yes, 0-2 credit hours of CHEM 396/496

Location of research/creative activities:

- SW3020

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

Using microorganisms to convert CO₂ into biodegradable plastics

Brief description of student responsibilities?

Make medium and grow microorganisms (mainly bacteria) in the lab, monitor their growth, quantify their plastic production.

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?

Aseptic technology in the lab, grow bacteria independently in the lab, using analytical instruments (UV-Vis, HPLC, GC/MS) to quantify the production.

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:

- N/A

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

- On Campus

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

- General Chemistry, Chem 120/131 or equivalent

Other requirements or notes to applicants:

- None