





### Faculty Member Contact Information

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### 6 Unfunded URCA Assistants

	This position is <b>ONLY</b> open to students who have declared a major in this discipline.	<b>M</b>
	This project deals with social justice issues.	
<b>X</b>	This project deals with sustainability (green) issues.	
	This project deals with human health and wellness issues.	
	This project deals with community outreach.	
<b>X</b>	This mentor's project is interdisciplinary in nature.	<b>I</b>

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

- Yes. Biology, Environmental Science

**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 hours

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

- Yes-- Chem 396/496 (2 credit hours)

**Location of research/creative activities:**

- Science West 3020

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

Use certain microorganism as a small factory to produce useful chemicals as biofuels/biomaterials

**Brief description of student responsibilities?**

Make a medium for the microorganism, grow the microorganism, using certain instruments to measure their growth and quantify their biofuel/biomaterial 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?**

How to grow certain microorganism in a lab environment. Using multiple analytical instruments to quantify the cell density and chemical concentrations.

**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 121 or 131

**Other requirements or notes to applicants:**

- N/A