

### Faculty Member Contact Information

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### Description of the URCA Assistant Position

This posting includes one funded position. In addition, the faculty member may be willing to mentor additional, unfunded students.

**How many unfunded students is this professor taking in addition to his/her one funded student?**   2  

(Students, if the faculty member will have both funded and unfunded students, he or she is free to select which student receives the funding. Funding cannot be split up between multiple students; only one student will receive it.)

### **Which of the following apply to this position?**

- 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. 

**How many hours per week will your student(s) be required to work in this position?**   6-10  

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

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

No

**If yes, in which course?** CHEM (296, 396, 496), ENSC 499

**If yes, for how many credit hours?** 2

**Location of research/creative activities:** N/A

### **Brief description of the nature of the research/creative activity:**

Determination of the presence and potential effects of pharmaceuticals, veterinary antibiotics, and (or) endocrine disrupting compounds in surface and ground water supplies. Conduct aquatic toxicity tests with these compounds.

### **Brief description of student responsibilities:**

Students will gather current literature pharmaceuticals, veterinary antibiotics, and (or) endocrine disrupting compounds in surface and groundwater, and appropriate toxicity testing protocols (e.g., culturing the organisms, proper ASTM testing protocols, and any published results). Projects will involve either determining water extraction techniques to test for these compounds in water samples and (or) conducting aquatic toxicity tests (standardized 48- and 96-hr toxicity tests with D. magna) with these compounds.

### **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 how to gather and assess the current literature on pharmaceuticals, veterinary antibiotics, and (or) endocrine disrupting (in general and in water samples). They will learn the appropriate laboratory techniques for either the extraction and determination of the compounds or toxicity testing with these compounds. Students will analyze their data and present their findings in either a poster or powerpoint presentation.

### 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?**

N/A

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

N/A

**Other requirements or notes to applicants:**

N/A