

### 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?**   9  

(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?** N/A

**If yes, for how many credit hours?** N/A

**Location of research/creative activities:** School of Dental Medicine, Alton, IL

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

The student will provide specific assistance in my research laboratory with ongoing research projects that involve the histological study of salivary gland pathology.

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

The student will learn and assist in scanning electron microscopy and routine histology protocols. The student will assist with the preparation of tissue samples, fixatives and buffers and other routine laboratory duties. The student will also help in acquiring digital images of samples and also digitizing histological slides.

**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?**

By the end of the semester, the student would have gained experience in laboratory bench work. He/she would have been exposed to electron microscopy and routine histological protocols. The student will also gain experience in digitizing histological slides and learn vital skills that help locate, retrieve and assess significant scientific literature.

### 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:**

Flexible timing; students can set hours that fit their schedules.

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

Students should be able to travel to the School of Dental Medicine at Alton.

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

No prerequisites required; will be beneficial for the student and the mentor if basic biology/histology or molecular biology courses have been completed.

### **Other requirements or notes to applicants:**

This would be an ideal position for a student considering a research career (basic or clinical), or interested to pursue a graduate education in the life sciences. The student's experience will give them an opportunity to understand the daily workings of a research laboratory.

I would prefer students who are motivated, professional, keen on research and who have a passion for learning.