

### Faculty Member Contact Information

**Name:** Medha Gautam

**Department:** Applied Dental Medicine

**E-mail Address:** mgautam@siue.edu

**Phone Number:** 618-474-7288

**Campus Box:** 1111



### 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?**   1  

(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?**   8  

(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:** Science Bldg, SIUSDM, Alton

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

This position involves research investigating the molecules and mechanisms controlling pain sensation in teeth.

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

The Assistant will assist in conducting literature reviews, organizing and collating data, and data analysis using imaging software.

**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 assistant will learn to find scholarly articles, use Metamorph (imaging software) for quantitative analysis of scientific images, and organize data into a presentable format.

### 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:**

Students must be able to work during hours that are mutually convenient for the student and the faculty mentor.

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

Students must be able to provide their own transportation to and from the Dental School in Alton. (~25 min drive from SIUE campus)

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

Students must have a B or better in any Basic Molecular Biology course covering genes, nucleic acids, and proteins. A knowledge of basic computer skills will also be an advantage.

**Other requirements or notes to applicants:**

N/A