

### 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?**   0  

(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?** CNST 499

**If yes, for how many credit hours?** 1-3

**Location of research/creative activities:** SIUE campus

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

The student will provide support for studies related to storm water runoff from construction sites, performance of porous pavements, and documentation of building components and thermal performance.

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

The student will maintain automated water quality and precipitation recording equipment, participate in infiltration rate measurements of porous pavements, and manage vegetative cover seeding experiments. Three dimensional laser scanning and infrared photography documentation are likely tasks associated with anticipated work.

**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?**

At the conclusion of the student's work they will be proficient at determining stage/discharge relationships of open channel flow, mass sediment calculations, three dimensional scanning, thermal image interpretation, and infiltration rate determinations.

### 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:**

Student availability is flexible.

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

All off campus travel (minimal expected) will be supported. No student vehicle is required.

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

No prerequisites.

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

I prefer students comfortable with outside physical work and adverse weather.