

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? 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? 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: Engineering Building SIUE

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

The student will provide support to me as I develop an advanced finite element computer model to approximate the physical behavior of a wood truss bearing.

Brief description of student responsibilities:

My assistant will be responsible for helping to find input for parameters used in the model, using spreadsheets to help synthesize experimental data, and other tasks related to the development of the procedure. The assistant will also learn how to work with the finite element structural analysis package and edit existing models.

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, my assistant will have an appreciation for wood construction and design, as well as a basic familiarity with the finite element method for structural analysis.

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 will need to be available for meetings during at least two Monday, Tuesday, Thursday, or Friday mornings during the week for one hour (date and time to be determined).

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:

Students should be finished with CE 240 and CE 242 and received at least a B in both classes. The student should also be familiar with AutoCAD.

Other requirements or notes to applicants:

N/A