

Faculty Member Contact Information

Name: Ronald Worthington

Department: Pharmaceutical Sciences

E-mail Address: rworthi@siue.edu

Phone Number: 618-650-5168

Campus Box: 2000



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 Pharmacy

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

The project involves discovery and annotation of individual genomic variation, especially novel variants, and contributing the information to public academic databases.

Brief description of student responsibilities:

Students will be assigned DNA sequences, specific genomic variations, and other genomic data and will annotate these for functional consequences using a variety of analytical tools available on the internet.

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 to use a variety of online academic servers to analyze and annotate human genetic variation.

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:

2 semesters of general biology minimum

Other requirements or notes to applicants:

Students with programming knowledge of Perl or R would be especially useful in the project.