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?
This professor will be taking 1 additional, unfunded student
(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?
[X] 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? 10
(Minimum is 6 hours per week; typical is 9.)

Will it be possible for your student(s) to earn course credit? Yes
If “yes,” in which course? BIOL 493:028
If “yes,” for how many credit hours? 2

Location of research/creative activities: Research Lab (SLW 0020)

Brief description of the nature of the research/creative activity:
Students will conduct lab work to examine changes in tadpole physiology and anatomy that are associated with changes in their responses to stress and how they escape from predators.

Brief description of student responsibilities:
Students will use previously collected specimens to examine the effects of stress-reducing chemicals by (1) preparing slides of treated individuals for microscope analysis (2) staining slides, (3) examining and quantifying changes in cell and tissue anatomy that result from range of chemical treatments. Successful completion of the experimental portion of the project will serve as the basis for the student presenting a poster or talk at a scientific meeting.

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 end of the experience, the student will have learned (1) how to prepare specimens for microscopic examination (histology techniques), (2) how to use a microscope equipped with a camera to record and analyze anatomy, (3) how to quantify information from digital images, (4) basic statistical analyses, and (4) how to prepare and give a presentation at a scientific meeting.

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:
No required times/days
If the location of the research/creative activities involves off campus work, must students provide their own transportation?

On campus

Must students have taken any prerequisite classes? Please list classes and preferred grades.[E.g., I require my students to have taken PSYC 220 and 221 and have earned at least a B in both]

N/A

Other requirements or notes to applicants:

N/A