

Faculty Member Contact Information

Name: **Jason Williams**
Department: **Biological Sciences**
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Description of the URCA Assistant Position(s)

Number of students requested: **3**
Number of students to receive funding: **1**
Will it be possible for your student(s) to earn course credit? Yes No If yes, in which course? **Biol 493**
Location of research/creative activities: **My laboratory (Science 3210B)**

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

The effect of repetitive and severe freezing on mitochondrial function in a naturally freeze tolerant animal

Brief description of student responsibilities:

Students will conduct literature reviews, collect and maintain insect population, learn and perform data collection protocols, analyze data graphically and statistically.

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 overall goal of the student is to gain an understanding of the process of science from conception of a question to presentation of the data to the scientific community. Within this overarching goal, the student will gain a command of pertinent literature, become proficient in basic and specialized lab skills, and correctly graph and analyze data. Ultimately, the student will present their work at local, national, and/or international venues (i.e. scientific meetings) and through publication of their work in an appropriate scientific journal.

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 will set 8 hrs on their own with a one hr lab meeting each week.

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

Yes No

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

no

Other requirements:

no

Notes to applicants (i.e., any other information you'd like applicants to know about you or the position before applying):

no