Faculty Member Contact Information

Name	Dr. Bryan Smith
Contact Info	
SIUE Email	bryasmi@siue.edu
Campus Box	1126
Department	Applied Health

1 Funded, 2 Unfunded URCA Assistants

X	This position is **ONLY** open to students who have declared a major in this discipline.	
	This project deals with social justice issues.	
	This project deals with sustainability (green) issues.	
X	This project deals with human health and wellness issues.	
	This project deals with community outreach.	
	This mentor's project is interdisciplinary in nature.	

Are you willing to work with students from outside of your discipline? If yes, which other disciplines?

- No

How many hours per week will your student(s) be required to work in this position? (Minimum is 6 hours per week; typical is 9)

- 8 hours

Will it be possible for your student(s) to earn course credit?

- No

Location of research/creative activities:

- SIUE Exercise Physiology Lab, VC2305

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

This research will focus on the measurement of body composition using different technologies as well as looking at the ability of various smart watches to predict VO2max

Brief description of student responsibilities?

Students will be involved in all aspects of the research projects. Starting with participant recruitment, data collection, data entry, data analysis and presentation of data at regional and/or national conferences.

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 how to measure body composition with state of the art technology (DXA scanner) and they will learn how to use a new technology that is based upon electrical impedance myography. They will learn how to calibrate and operate a metabolic cart in order to measure VO2max. They will also get to work with state of the art smart watches from Polar and Garmin. They will also receive an introduction to SPSS and will assist with the analysis of data. Students will also be required to do all required Human Subject Training Classes, thus they will gain an understanding of the different levels of Human Subjects Protection

<u>Requirements of Students</u>

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:

- Once the students have completed their initial training, they will have the freedom to complete research as it fits their schedule. They will have open access to our research facilities once they have completed their initial training

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

- All research activities will take place on campus. Specifically, they will take place in VC2305, the Exercise Physiology Lab

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

- Students that have taken KIN350 or are enrolled concurrently are preferred, but not required.

Other requirements or notes to applicants:

- Must be an Exercise Science Major or concurrently enrolled in KIN275