

Faculty Member Contact Information

Name	Nathaniel Adegboyega
Contact Info	
SIUE Email	nadegbo@siue.edu
Campus Box	Box 1099
Department	Environmental Sciences

1 Funded, 1 Unfunded URCA Assistant

	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.	
	This project deals with community outreach.	
	This mentor's project is interdisciplinary in nature.	I

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

Yes

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)

9

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

No

Location of research/creative activities:

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

My research is focused on chemistry and environmental nanotechnology. We study the formation and characterization of natural organic matter-induced nanomaterials and their application in contaminant removal. We are currently focusing on silver and gold nanoparticles. Students will have the opportunity to substitute other model organic compounds for NOM and evaluate their metal-reducing potential

Brief description of student responsibilities?

The successful student will clean glassware and prepare acid bath solutions, buffers, standards, and other working solutions. Other responsibilities will include nanomaterial synthesis, characterization, and monitoring stability studies, using a suite of analytical techniques to determine nanoparticle formation. The student will explore the application of synthesized nanoparticles.

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?

Yes

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:

n/a

Other requirements or notes to applicants:

n/a