

Faculty Member Contact Information

Name	Tom Spudich, PhD
Contact Info	
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Department	Forensic Sciences

1 Funded, 4 Unfunded URCA Assistant(s)

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)

- 6-9

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

- Yes, in CHEM 296, 396 or 496 for 0-3 credit hours.

Location of research/creative activities:

- Research lab in Belleville at the Southwestern Illinois Justice & Workforce Development Campus

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

- The student will work in the lab developing new methods to identify components in evidence faster. They will use various types of instrumentation in spectroscopy and chromatography.

Brief description of student responsibilities?

- The students will be responsible for working in the lab. The student will also need to make solutions, which means understanding the concentration units of molarity and parts per million to apply in a lab setting. The student will also be responsible for documenting work completed, either in a paper or an electronic notebook.

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 student should learn how to do basic analyses independently using instrumentation in a chemistry lab. The student will also develop basic lab skills to include solution and sample preparation.

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:

- Research will not be possible Tuesday from 3-6pm or Thursday 1-4pm. Other times should work, but

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

- Students will have to be able to provide their own transportation to and from Belleville at this time. There is potential for a shuttle, but it is not known at this time whether or not that will be in place for this upcoming academic year.

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

- CHEM 121B/125B (or transfer equivalent) with a C or higher -- required.

Other requirements or notes to applicants: