

Postdoctoral position in Bioinformatics/Biology Education at Florida International University

Florida International University's Department of Biological Sciences and the STEM Transformation Institute are searching for a postdoctoral research associate in biology education research. The successful candidate will work on **Project iCREATE** (investigating Career & Research Experience Access Through Evidence), a newly funded NIH project that will address the lack of diversity in biomedical careers by designing, implementing and testing innovative interventions; as well as investigating the effect of high-impact practices on students' career goals, career strategies, and key student career intent and action outcomes. iCREATE aims to develop and implement two interventions: 1) Careers+, a workshop for students focused on career development strategies and biomedical career awareness, and 2) CURE+, a research internship which expands a one semester computational biology course-based undergraduate research experience (CURE) into a two-semester advanced research experience. In parallel, iCREATE will evaluate the effectiveness of the proposed interventions and current research experiences available to select students at our institution and perform a qualitative longitudinal study of undergraduates' development of career goals and strategies and the impact of research experiences and career development opportunities on student career goal trajectories.

This project is a collaboration between Dr. Melissa McCartney and Dr. Jessica Siltberg-Liberles. The McCartney lab (<https://melissamccartneyphd.com>) focuses on helping undergraduates begin to see themselves as scientists, especially as this relates to identifying a scientific career path and entering the STEM workforce, and become experts in scientific processes and skills. The Siltberg-Liberles lab (<https://www.siltbergliberleslab.com>) is broadly focused on basic research in comparative bioinformatics and education research on undergraduate research and bioinformatics experiences.

We are based at Florida International University - a public, urban, Hispanic-serving research institution serving over 55,000 students located in Miami, FL. FIU offers opportunities to interact and collaborate with 20 science education and discipline-based education faculty across multiple STEM fields through the STEM Transformation Institute.

The **primary responsibility** of this position will be conducting biology education research and mentoring undergraduates in the CURE+ research internship. This position utilizes a hybrid design that integrates teaching experience with research activities to facilitate implementation of evidence-based practices, thus preparing the candidate for an academic career.

The position requires either a PhD in (a) a STEM field (e.g., Bioinformatics, Biology, Computer Science, etc.) with a demonstrated interest in education, (b) science education, or (c) other related fields. Candidates are preferred who have experience with (a) quantitative methods, (b) a background in bioinformatics, (c) an interest in leading undergraduate research courses, and (d) an interest in scholarly writing. The appointment is for one year with possible renewal for up to four additional years contingent upon satisfactory performance. The position is in person at FIU. Some travel will be required.

The ideal start date is on or around January 2023 (some flexibility is possible).

Applications for this position should include a:

1. Cover letter,
2. Curriculum Vitae with the names and contact information of 3 references, and
3. One-page summary of education research interests,

Please send these materials to Dr. Jessica Siltberg-Liberles at jliberle@fiu.edu with the email subject Post-doc application: [*Your name*].

Please feel free to send any questions you might have about this position to Dr. Siltberg-Liberles (jliberle@fiu.edu).

Review of applications will begin on November 15th, 2022 and continue until the position is filled.