Data Science, Analytics, and Equity in Undergraduate Life Sciences

Department of Microbiology, Assistant Professor, anticipated start date of August 2023

Increasing diversity in life sciences is a national priority and retaining diverse students requires attending closely to inclusion and equity in undergraduate education. Big data can be examined to identify inequities in student outcomes and experiences and to provide insights about changes that universities, departments, and instructors can make to create more equitable and inclusive learning experiences for students. For example, data from learning management systems or classroom data can document hundreds of small behaviors by students that can then be analyzed to understand inequities and respond immediately. Data can also be used as part of teaching development, providing faculty with timely and detailed information about their students and promoting responsive and equitable teaching. The candidate for this position will be a discipline-based education researcher who applies data science, learning analytic, and/or machine-learning methodologies to support inclusion and equity, with applications in undergraduate life science teaching and learning. The candidate will contribute to teaching introductory biology, which has considerable and growing teaching needs.

This position posting is forthcoming.