



Lucie Guertault

Lucie Guertault, is the 2024 recipient of the A.W. Farrall Young Educator award for making exceptional contributions to the profession through her scholarship in engineering education and mentoring.

Guertault is an assistant professor at North Carolina State University (NCSU). At NCSU, she develops and teaches courses at the undergraduate and graduate level for the biological engineering and biological and agricultural engineering technology programs. She also coordinates the department undergraduate research scholarship program.

Guertault serves as an academic advisor for 30 students in the biological and agricultural engineering technology undergraduate program and masters of biological and agricultural engineering program. Since her appointment as a tenure track assistant professor in 2020, she has significantly contributed to the improvement of undergraduate academic programs in the biological and agricultural engineering department at NCSU by teaching and improving existing courses, designing new courses, and creating enrichment opportunities for undergraduate students. Guertault serves as project mentor for first year students enrolled in the introduction to engineering. In this project, students have to design a prototype in-stream structure that can be used to stabilize streambeds and provides fish passage, and test it in a hydraulic flume. This project engages approximately 70 students every year and exposes them to the biological engineering program. Guertault also serves as faculty

advisor for SPROUTS (STEM Program to Reach Our Underrepresented Teens) students' organization.

A 7-year member of ASABE, Guertault has served on and chaired several committees. She is currently the chair of the ASABE North Carolina Section, and the Education, Outreach, and Professional Technical Community representative to the Publications Council. She also serves ASABE as an associate editor.

Throughout her career, Guertault has received a number of awards and recognitions for her teaching. She was awarded the Outstanding Graduate Instructor award, the Outstanding BAE Professor of the Year award, and the Outstanding Teacher award from NCSU. She also received the Early Achievement in Engineering Education award and Excellence in Teaching Materials award both from the American Society for Engineering Education's biological and agricultural engineering division. Guertault has authored or coauthored 23 refereed journal articles, 7 conference proceeding paper, and her work has been cited over 400 times. She also received a \$650,000 grant from USDA NIFA to develop a research and extension experience for undergraduate summer program on the topic of the intersection between the science, practice and policy of agricultural water pollution.