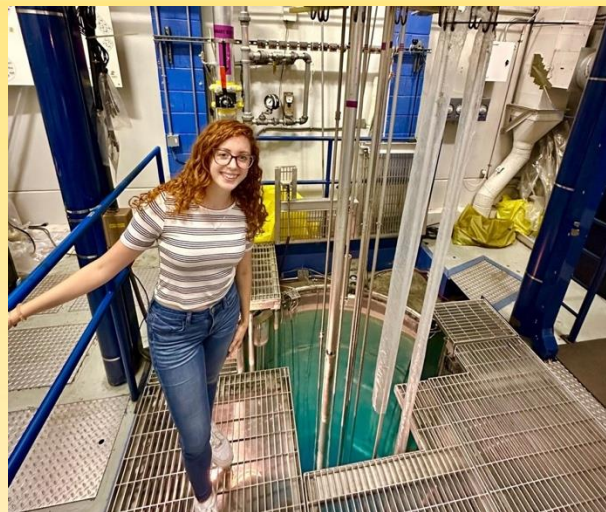




**Gabriela Ortega**  
**Environmental Safety and Health (ES&H)**  
**Lawrence Livermore National Laboratory**

## Overview

There is a high demand for swipes that can provide an immediate response when uranium is detected. My project this summer aims to develop such a swipe using modified electrospun nanofibers. The new swipes will conform to and improve current ES&H sampling practices.



*At the McClellan nuclear reactor during the NSSC INDAT summer school.*

*“Participating at LLNL this summer helped me grow professionally and expand my knowledge in the nuclear field. I worked with an amazing team in a collaborative atmosphere and saw how some of the best minds in the country are helping shape our world.”*

## Outcomes

I am very grateful for all the new experiences and opportunities I have had this summer. One of these opportunities involved attending nuclear summer school hosted by the Nuclear Science and Security Consortium (NSSC) at the University of California, Davis, which allowed me to expand my knowledge of nuclear physics and engineering. I was also fortunate to complete radiation trainings at LLNL and engage with radioactive materials on site.

I am very happy with the progress I made this summer. I was able to develop swipes that can adsorb and detect uranium efficiently. I am excited about the advances these swipes can provide in the nuclear forensics and nonproliferation fields.



**Gabriela Ortega**  
**Environmental Safety and Health (ES&H)**  
**Lawrence Livermore National Laboratory (LLNL)**

PhD Candidate, Chemistry,  
Florida International University