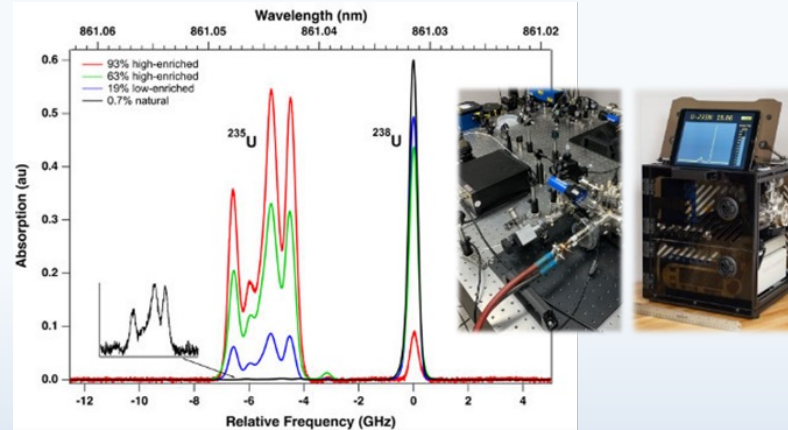


Overview

The Defense Nuclear Nonproliferation Research and Development effort relies on the NNSA and DOE national laboratories, industry, and academia to conduct state-of-the-art research in order to advance the NNSA's overall missions. Towards this end, I assisted in the review process for nuclear forensics research proposals focused on developing new and advanced instrumentation.

Outcomes

One aspect of NA-22 is to allocate funds by determining which projects will most significantly impact the advancement of nuclear forensics research. I was tasked with reviewing small business proposals for technical merit, feasibility, and significance towards nuclear material analysis. I was able to view these proposals from different perspectives by working with program managers and technical advisors.



Los Alamos National Laboratory laser spectroscopy research; Isotopically-resolved spectra of uranium, experimental setup, and fieldable prototype.

I was also able to attend budget briefings to gain additional insight into how projects are monitored once funded. Overall, I gained knowledge of the proposal process from submission to funding, acquired critical thinking skills, and learned to effectively communicate ideas. Through this internship, I was also exposed to career options at national labs by networking with research scientists.

“The MSIIP internship taught me how to apply critical thinking and problem-solving skills acquired from my PhD research in a completely different way. I was also able to gain insight into the many different areas of research being conducted throughout the NNSA.”



Kelly Rue
NA-22 Defense Nuclear
Nonproliferation Research
and Development

Doctor of Philosophy, Chemistry, Florida International University