Through the synergy and leveraging of resources and expertise at three minority serving institutions and two world class national laboratories, we will educate scientists and engineers in the underlying science of nuclear security and nonproliferation.

Vision of the CONsortium on Nuclear sECurity Technologies:

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Eligibility Requirements

- US Citizen or Permanent Resident
- PhD in Physics, Engineering Fields, Materials Science, Computer Science and Related Disciplines

Application / Deadline

Submit application with Current CV and personal Statement to https://jobs.utsa.edu/postings/14540

Please direct all questions to NNSACONNECT@utsa.edu

Seeking Postdoctoral Fellow Applicants

Experimental Program Overview

UTSA is recruiting a postdoctoral fellow to engage in nuclear science research. The fellow will be supported by a recently funded NNSA Grant. This position is targeting experimentalists in physics, materials science, engineering, and related disciplines. The fellow will be under the supervision of the principle investigator, Dr. Kelly Nash and co-PI Dr. Elizabeth Sooby Wood in the Department of Physics and Astronomy at the University of Texas San Antonio. This position will be in the experimental synthesis, optical, and spectroscopic characterization of nuclear materials. The experimental techniques employed will be arc melting, metallurgy, thermogravimetric analysis, scanning electron microscopy, and mass spectroscopy. The post-doc will receive training and mentoring in the use of various experimental and limited computational techniques at both UTSA and Los Alamos National Laboratory. Successful applicants will have an experimental science or engineering background, be willing to work closely with collaborators at LANL, demonstrate excellent written and verbal communication skills, and be capable of co-mentoring undergraduate and graduate students on this project with the PI and co-PI

Areas of Research

- Fuel Cycle Materials
  - Fabrication
  - Materials Property Determination
- Advanced Characterization and Forensics
  - Thermal Analysis
  - Optical photoacoustic spectroscopy
- Computational Modeling and Data Analytics
  - Big Data and Machine Learning
  - Uncertainty Quantification and Sensitivity Methods
  - Visual Analytics
- Detection Science