EXPERIENCE THE
ULTIMATE
NUCLEAR
&
TRAINING &
DEVELOPMENT
PARTNERSHIP
IN THE
NATION

CENTER FOR EXCELLENCE
CENTAUR
IN NUCLEAR TRAINING &
UNIVERSITY-BASED RESEARCH

National Nuclear Security Administration
JOIN OUR TEAM

CENTAUR@COMP.TAMU.EDU
CENTAUR.TAMU.EDU

EQUIPMENT & FACILITIES

- K500 Cyclotron
- K150 Cyclotron
- 9 MV Tandem + 8 MV Linac
- Radioactive and Stable Particle Beams
- MARS Spectrometer
- MDM Spectrometer
- Super-Enge Split-Pole Spectrograph
- TIARA Charged Particle Detector Array
- BaF2 Large-Area Gamma Detector Array
- Hyperion Gamma Detector Array
- DAFNE Neutron Detector Array

ENHANCE YOUR SKILLS

- Detector Development & Testing
- Precision Nuclear Measurement
- Nuclear Theory & Modeling
- Signal Processing
- Electronic Design
- Machine Learning
- Computer Science
- Applied Statistics
- Mechanical Design

MAKE THE RIGHT CONNECTION

- University partnerships
- Networking opportunities
- Industry connections with national labs

CAREER BENEFITS

- Impactful Work
- Funding
- Get Paid

FIND YOUR NICHE

- Advanced Detector Development - Next generation neutron and charged-particle detectors
- Nuclear Dynamics & Thermodynamics - Elucidating equation of state through nuclear collisions sheds light on neutron star physics and nucleosynthesis
- Actinide Science - Spectroscopy, chemistry, fission dynamics and exotic nuclei are applied to basic and applied science
- Nuclear Astrophysics - Transfer reactions are used to understand how elements are created in the cosmos
- Stockpile Stewardship - Neutron capture measurements and surrogate reactions to determine fission cross-sections have direct applications to national security

MAKE THE RIGHT CONNECTION

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GET PAID

Graduate student funding is available at most CENTAUR universities:

- Texas A&M University
- Florida State University
- Washington University
- University of Washington
- Louisiana State University
- University of Notre Dame

Graduate students also have the opportunity to collaborate with scientists at these national labs:

- Lawrence Livermore National Laboratory
- Los Alamos National Laboratory
- Institute for Nuclear Theory

and more