

Nuclear Non-Proliferation Safeguards and Security

Proposed Nuclear Science and
Engineering Workforce Development
Programs

Proposed Graduate Fellowship Program History

- Based on AEC Special Fellowships (1954-1974)
- National Competition for Awards
- Participating Universities
- Strong Laboratory Interactions (Mentoring, and Hands-On Experience)
- Focus on Employment with DOE Laboratories
- Proposed SUNRISE-SCUREF Administration

Southeast Universities Nuclear Reactors Institute for Science and Education

- SUNRISE 501 (c) 3 Not for Profit
- 12 universities all with NSE capabilities
- 7 industrial organizations
- 2 national laboratories
- Proposed Fiscal Agent with DOE-SR

Programs are performed for all for US
universities and DOE laboratories and facilities

Southeast Universities

SUNRISE

Nuclear Reactors Institute for
Science and Education

Proposed Workforce Programs in Nuclear Non-Proliferation, Safeguards and Security

Graduate Fellowships

Undergraduate Research

Faculty Development

Junior Faculty Programs

Joint Faculty Appointments with National Labs

International (IAEA) Short and Long-Term
Appts.

Southeast Universities



Nuclear Reactors Institute for
Science and Education

Proposed Graduate Fellowships in Nuclear Non-Proliferation, Safeguards and Security

- National Competition for Awards a “Best and Brightest” Program
- Program is Based on Nuclear Science and Engineering Needs, A Tie-in with University International Policy Programs is Proposed
- Required Laboratory Summer Practica and MS PhD Research
- Participating Universities Based on Nuclear Science and Engineering Capabilities
- Service Obligation Two Years of Support One Year of Service

Southeast Universities



Nuclear Reactors Institute for
Science and Education

Proposed Undergraduate Research in Nuclear Non-Proliferation, Safeguards and Security

- National Competition for Awards
- Based on Nuclear Science and Technology
- Summer Appointment to National Lab with Mentor
 - Problem Statement
 - Literature Review
 - Applied Laboratory Research
- Fall Write-Up with Course Credit and Oral Presentations

Southeast Universities



Nuclear Reactors Institute for
Science and Education

Proposed Faculty Development in Nuclear Non-Proliferation, Safeguards and Security

- Junior Faculty Awards (Nationally competitive, Universities must provide matching funds)
- Joint Faculty Appointments (1 to 2 Consecutive Terms at University or Laboratory, Emphasis on Research and Course Development)
- Foreign Laboratory or IAEA Appointments (Short-Long Term Appointments for both Senior and Junior Faculty)
- Foreign Laboratory and University Personnel Appointments in US Labs and Universities

Southeast Universities



Nuclear Reactors Institute for
Science and Education