



# NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI

Workshop

October 3-4 | Albuquerque, New Mexico

**NSF Program: CICI**

**Program Area: Regional**

**Award Number: 1642118**

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**Project Title: SCEPTRE** (*Substrate for Cybersecurity Education; a Platform for Training, Research and Experimentation*)



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## Quad Chart for:

### **SCEPTRE**

(Cybersecurity Education – SCADA, PLC, IoT, ...)

#### Challenge:

- Fast transition to complex, ubiquitous, interconnected Cyberinfrastructures
- Superficial training in the context of the technology and the related security
- Inadequately trained or nonexistent workforce

#### Solution(s):

- Rigorous, academic training (like in Medicine)
  - Core Principles
  - Broad multidisciplinary scope
  - Hands-on (Cyber Ranges, Hybrid systems)
- Rewarding, long-term careers



#### Broader Impact:

- A necessary ingredient for preventing future catastrophic disruptions of our societies caused by compromised Cyberinfrastructures
- Cybersecurity workforce development
- (Inter-)Regional Collaboration (CAAREN – Merit)

#### Metadata tag:

- <Cyber Range>
- <hands-on training>
- <hybrid>
- <virtual>!
- <SCADA>
- <PLC>