Welcome!

Central State University

Profile College on Engineering, Science, Technology & Agriculture (CESTA)

Alton B. Johnson, Ph.D.
Dean and Director
College of Engineering, Science, Technology and Agriculture

www.nasa.gov
ACADEMIC PROGRAMS AND DEGREES

- Department of Agriculture & Life Sciences
  - Agricultural Sciences
  - Biology
  - Chemistry

- Department of Manufacturing Engineering
  - Industrial Technology
  - Manufacturing Engineering (ABET Accredited)

- Department of Mathematics & Computer Science
  - Mathematics
  - Computer Science

- Department of Water Resources Management
  - Water Resources Management
  - Environmental Engineering (ABET Accredited)
PROGRAMS CAPABILITIES

Agriculture and Life Sciences

- Snake Venom: Cancer & Wound Healing
- Carbon Sequestration/Ni & P Runoff Prevention
- Macromolecule Structure
- Drug Inhibition Reactions
- Corrosion Detection and Prevention
- Archaeological Materials
- Biopolymers/Biocomposites
- Pollinator health
- Non-chemical Weed Elimination
- Natural Products

Manufacturing Engineering

- Composites/Nanocomposites
- Ceramics/Ceramic Composites
- Additive Manufacturing
- Li ion Battery Development/Mfg.
- Industrial and Mobile Robotics
- Sensors/Sensor Fusion
- Conformal Antennas/Space and Time Adaptive Processing (STAP)
- Scientific Ballooning
## Programs Capabilities

### Mathematics and Computer Sci.

- *Pattern Recognition and Machine Learning*
- *Computer Vision/Artificial Intelligence*
- *Number Theory*
- *Secrecy-Preserving Reasoning and Query Answering*
- *Deep Learning, Cyber-Security*
- *Bioinformatics*
- *High-Performance Computing/Quantum Computing*

### Water Resources Management

- *Remote Sensing*
- *GIS for Water and Environmental Analysis*
- *Water Resources Systems Analysis*
- *Water Resources Economics*
- *Water Resources Systems Analysis*
- *Hydropower*
- *Energy and Water Audits for Systems*
PHOTOS

Laser-Sintering 3D Printer (Metals)
Vertical Machining Center
ProtoTrak Engine Lathe
33-Ton Injection Machine
Autoclave
Industrial Robotics
Photos

Accelerated Solvent Extractor

Ground Penetrating Radar

Supercritical Extractor
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Thank you.

Questions?