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 Agricultural & Life Sciences
  • Agricultural Sciences
  • Biology
  • Chemistry
  • Exercise Science

• 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

Agricultural 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
• 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
Creep Machines

Universal Testing Machine

Wire EDM

GC-Mass Spec

CHNS Analyzer

Surface Hydrology Model
PHOTOS

Accelerated Solvent Extractor

Supercritical Extractor

Ground Penetrating Radar
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Thank you.

Questions?