National Aeronautics and Space Administration

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

Aerospace Business Matchmaker
OHIO • JULY 2018

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

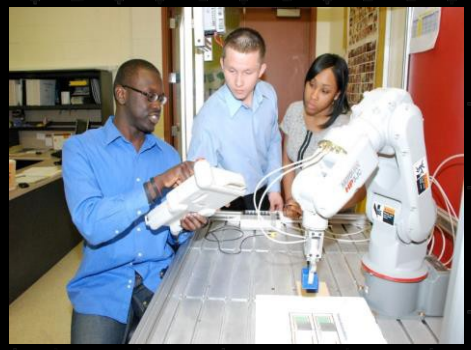
Laser-Sintering 3D Printer (Metals)

Vertical Machining Center

ProtoTrak Engine Lathe

33-Ton Injection Machine

Autoclave



Industrial Robotics

PHOTOS

Accelerated Solvent Extractor

Ground Penetrating Radar

Supercritical Extractor

Contact Information

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Thank you.

Questions?