



Evidence Document

for Higher Learning Commission Reaccreditation

Document Title: Institute for Nanoscience and Engineering

Office of Origin: College of Arts and Sciences

Document Summary:

The Institute for Nanoscience and Engineering has a group of facilities that are open to users upon completion of training, including the Arkansas Nano-Bio Materials Characterization Facility, Optical Characterization Laboratory, and more.



Institute for Nanoscience and Engineering

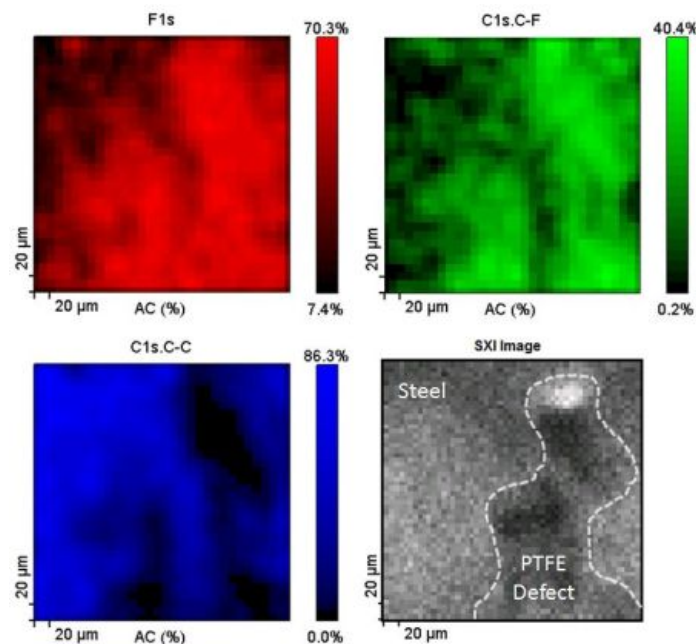
Discovering New Materials and Make Tomorrow's Products



Industry Collaboration & Support

The Institute for Nanoscience and Engineering has a group of facilities that is unique among universities.

We encourage industry collaboration on new and existing research and development needs. Our user facilities are open to users upon completion of training on a wide range of capabilities. The techniques available include cutting edge x-ray diffraction, x-ray photoelectron spectroscopy, confocal microscopy and atomic force microscopy (AFM), including an exclusive high speed AFM capable of video rate imaging.



The structure, chemistry and surface properties of crystalline and biological materials can be characterized by these tools in multiple ways both at the macro and nano scale, providing a rich dataset of information that can be utilized to solve problems in a range of scientific arenas. Additionally we have facility service centers that employ our experts in materials growth, electrical and optical characterization.

Facilities open for external/internal users:

- [Arkansas Nano-Bio Materials Characterization Facility](#)
- Materials Characterization Facility
- Nanofabrication Laboratory

Facility service centers, open for external/internal collaboration:

- [Arkansas Electrical Characterization Laboratory](#)
- Optical Characterization Laboratory
- [Molecular Beam Epitaxy \(materials growth\)](#)
- [Bio/Nano Technology](#)
- [Protein Targeting, Transport and Interactions](#)
- [Optoelectronics Research Lab](#)
- [Terahertz Imaging and Spectroscopy](#)
- Theoretical Modeling
[Computational Condensed Matter Physics Group](#)
[Nanoscale Material Behavior](#)
- Materials & Manufacturing Research Laboratories
- [Nano-Surface Engineering and Nanotribology](#)
- [Nano Bio Photonics](#)

Please see our User Facilities and Facility Service Center sections for more information on instrumentation, contact information, and rates. Contact us today for a tour of the facilities and meet with our staff on your research and development needs, 479-575-4187, nanoinst@uark.edu.



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