The University of Iowa Microfabrication Facility (UIMF) is an interdisciplinary central research facility and service center that provides access to state-of-the-art equipment in the areas of micro and nanofabrication, metrology, device characterization and offers expertise and advanced training courses in the same related areas. It is an open-research facility serving the academic, industrial and governmental researchers across campus and beyond. The facility offers a common platform for the convergence of multiple scientific and engineering disciplines and facilitates collaborative research with strategic partners and information exchange.

Our goals are:

- To provide shared experimental capabilities with advanced equipment, skilled personnel and effective training.
- To promote and enable high quality research using a suite of micro- and nano-fabrication tools.
- To advance fundamental and technical knowledge in the area of micro- and nano-fabrication technologies.
- To promote multidisciplinary research and training through the usage of micro- and nano-fabrication tools.
- To train and support graduate and undergraduate research in the applications of micro- and nano-fabrication.
- To generate and disseminate knowledge to the wider research community.

The University of Iowa Microfabrication Facility offers state-of-the-art equipment and capabilities in the area of micro and nanofabrication technologies including:

- ISO 5 Cleanroom
- Nanoimprint
- Reactive Ion Etching
- Deep Reactive Ion Etching: Bosch and Cryogenic processes
- E-Beam Thin Film Deposition
- Sputter Thin Film Deposition
- Atomic Layer Deposition
- Photolithography
- Thin Film Metrology
- 3D Optical Surface Profiling
- Rapid Thermal Processing
- Spectroscopic Ellipsometry
- Wafer Bonding
- Wire Bonding
World Class Equipment

Open Access Facility

State-of-the-art equipment

Courses, Hands-on Training Workshops & Seminars

Expert Scientific Staff

Research Areas

- Photonic Materials and Devices
- Micro/Nanoelectronic Devices
- Integrated Optics
- Plasmonics
- Photovoltaic Devices
- Graphene devices
- CMOS Processing
- Nanomaterial Synthesis and Characterization
- Spintronic Devices
- Micro/Nanofluidics
- LED devices
- Sensors

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