

The Penn State Nanofabrication Laboratory saves companies the expense of maintaining their own state-of-the-art equipment and provides a highly skilled technical staff dedicated to working with companies from Pennsylvania and beyond.

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We have been using the fabrication facilities at Penn State to build and characterize our development devices. We've saved millions in capital and operational expenditures; more importantly, we saved precious time.

*- Joe Marcanio
Owner & CEO, Marcanio Co.*

Engage
Discover
Succeed

www.mri.psu.edu/nanofab | 814.865.7348



PennState
Materials Research
Institute

N-317 Millennium Science Complex
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University Park, PA 16802



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The Nanofabrication Laboratory
Innovation at the Nanoscale

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The Nanofabrication Laboratory



The Nanofab's level of technical resources can help enable and extend the continued growth and global reach of our Pennsylvania-based company. We enthusiastically support and will actively seek ways to strengthen our relationship with this valuable resource.

*- Kurt J. Lesker III
CEO, Kurt J. Lesker Company*

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EXPERTISE

The Nanofab's full-time dedicated staff can enable your organization to transition fundamental research in nanomaterials into multicomponent integrated devices and systems.

CAPABILITIES

- 65+ materials can be deposited
- 70+ materials can be dry etched on "non-standard" substrates such as curved surfaces and flexible materials
- World class in the areas of deposition, etch, lithography, and materials modification

ENGAGE

We engage with industry, government, universities, and other external users.

DISCOVER

We provide access to our world-class facilities and staff while offering the most progressive IP policy in academia.

SUCCEED

We are passionate about enabling you to transition fundamental research into real world applications.

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The Nanofabrication Laboratory
Innovation at the Nanoscale

At Penn State, nearly one hundred research groups are engaged in high-impact science and engineering at the nanoscale. The Nanofab provides specialized instruments and experienced, highly trained technical staff who support researchers in areas that reflect our faculty strengths, including sputter deposition, atomic layer deposition, thin film piezoelectrics, two-dimensional materials, CMOS, and MEMs.

Technical capabilities that set the Nanofab apart include e-beam lithography of fine spatial scale on curved surfaces and the ability to integrate nontraditional electronic materials, such as complex oxides, chalcogenides, graphene etc., into complex structures. The laboratory has world-class capabilities in the area of deposition, etch, lithography, and material modification.

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MRI's suite of full-service user facilities

- Nano/micro fabrication
- Materials characterization
- Crystal growth
- Materials computation