

Nanotech West Lab. The place to make it happen.

### Nanotech West Lab

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The Ohio State Nanotech West Lab is operated by the OSU Institute for Materials Research (IMR) and is supported by the OSU Office of Research, the OSU College of Engineering, and the OSU IMR.

For more information, including how to start a project, visit our web pages at [www.nanotech.osu.edu](http://www.nanotech.osu.edu)

### Participating Centers include



You have ideas worth exploring.

Let's get to work.



**Top:** Class 100 cleanroom facility for micro- and nanofabrication. **Middle:** Brookhaven Instruments® dynamic light scattering system for nanoparticle size and size distribution analysis. **Bottom:** Picosun® SunALE atomic layer deposition system.



At Nanotech West Lab, we're passionate about micro- and nanotechnology and the potential to transform both research and industry applications. **Current research programs at Ohio State span the fields of electronics, optics, advanced materials and characterization, energy, biology and medicine.** If you have research to conduct, a market to conquer, or a product you'd like to evolve, Nanotech West Lab is the place to make it happen.

## Specialized Processes

Our proprietary, custom-built "recipes" for standard processes make the most of state-of-the-art equipment.

- Innovative processes maximize testing effectiveness
- Access to proven processes minimizes ramp-up to testing
- We'll train your staff on processes or do the testing for you

## Knowledgeable Professionals

While our equipment is undoubtedly the envy of many, the experience and expertise of our people sets us apart.

- 10 full-time equivalent engineering and administrative staff
- Senior staff with hands-on experience and scientific expertise
- Collectively 168 years in the lab and in the field
- Serve as technical project managers for industry projects

## Flexibility and Accessibility

We work with you in the capacity you need.

- Training and setup for use of equipment and testing
- Service/remote process work
- Equipment is flexible for use with a variety of materials
- Bench space
- 24/7 lab access
- Shuttle van to central OSU campus six times per day



## Affordable Options

Nanotech West Lab offers an affordable approach to research and development.

- Partner with senior staff for a fraction of typical costs
- Pricing by hour, day or monthly cap
- Academic discounts
- No equipment charges or staff time charges for user training

## Technology and Primary Capabilities

- Electron beam lithography [Vistec® EBPG-5000]
- Metalorganic chemical vapor deposition [Aixtron/Swan® 3"x2"]
- Atomic layer deposition [Picosun® SunALE R-150B]
- Field-emission scanning electron microscopy [Carl Zeiss® Ultra 55 Plus]
- ICP-RIE, inductively coupled plasma reactive ion etching [Plasma-Therm® SLR 770] and several other plasma etch tools
- Wafer bonding and micro- and nanoimprint lithography [EVG 520HE]
- I-V, C-V, L-I-V, microfluidic, and solar device testing
- Atomic force microscopy [Veeco® 3100, Nanolnk®, Asylum® BioAFM]
- Full Biohybrid Lab
- Full-flow 100mm process capability including photolithography, wet/dry etching, deposition, oxidation, metrology
- 6,000 square foot class 100 cleanroom

**Find out more. Visit Nanotech West Lab online at [www.nanotech.osu.edu](http://www.nanotech.osu.edu), or contact us at 614-688-3055.**



*At Nanotech West Lab, R&D of the highest caliber is accessible and affordable.*

*Above: Asylum Research® atomic force microscope with biological imaging capability.*

