The Nanofabrication Manufacturing Technology (NMT) Partnership, hosted by the Center for Nanotechnology Education and Utilization (CNEU), is a unique collaboration aimed at equipping a new generation workforce with nanotechnology-based manufacturing and new product development skills companies need to move life-changing nano-scale applications out of the laboratory and into the marketplace.

All students enrolled in qualifying associate degree, baccalaureate degree, and certification programs at their NMT partner institutions are eligible for the Capstone Semester in nanotechology at Penn State’s University Park campus.

**The Capstone Semester**

Your pathway to a career in nanotechnology

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"Having a resource where students gain experience day one in a cleanroom is invaluable. It's still a very expensive prospect to hire someone new even with that background. But without it, it would make it that much more difficult.”

**Michael Rogosky, Nanovus**

**Have a Hand in Creating Your Future**

As an NMT Capstone Semester student, you will receive the most current, hands-on exposure available in nanofabrication manufacturing and characterization technology. You’ll work in groups with other students from different schools and diverse backgrounds, enhancing the experience of everyone in the group, as you learn a new skill set that makes you uniquely qualified to work in the cross-disciplinary field of nanotechnology.

The skill set, established by the NMT National Advisory Council, includes:

- Basic nanotechnology environmental, health, and safety (EHS) awareness
- Equipment and processing foundation skills
- Patterning
- Fabrication
- Characterization
- Professional skills

**Benefits**

- **Hands-on training** with the latest nanotechnology fabrication and characterization equipment.
- **Exclusive access** to a powerful job network through receiving industry announcements and job postings.
- **18 credits** earned in the six-course Capstone Semester apply to either two-year associate or four-year baccalaureate degree programs at NMT partner institutions. When taken as part of a two-year degree program, the 18 credits you earn in your Capstone Semester can later be transferred into select four-year degree programs.
Nanotechnology is Driving a Revolution

Advanced manufacturing and new product development is changing the way we live and learn on our planet—and the way we may solve some of our biggest challenges.

“"We haven’t tapped into all of the possibilities of what we can use nanomaterials for and we haven’t created all of the possible nanomaterials yet, so there are going to be exciting new companies, exciting new products, and exciting new services … the nanotechnology industry is going to grow and grow and grow.”

Peter Kazarinoff, Seattle Hub for Industry Driven Nanotechnology Education

Want to learn more about what students, employers, and educators say about the future of nanotechnology?

View our video: tinyurl.com/FutureOfNMT

“"Years ago I decided to take the NMT Capstone Semester. Every academic and professional decision I have made since then has resulted from that decision.”

Zachary Gray, Applications Scientist, Nanoscience Instruments, 2016 Materials Science, Penn State Ph.D.

Create your own nanotechnology-driven career in virtually any industry.

Nanofabrication Manufacturing Technology Partnership

To learn how to pursue a degree or certificate in nanotechnology, visit bit.ly/NMTCapstone for:

- Full course descriptions
- Eligibility requirements
- A complete list of NMT partner institutions
- Application and contact information

FOR MORE INFORMATION:

Susan Barger
Operations Manager
CNEU, Penn State
(e) dsb24@psu.edu

Robert Ehrmann
Managing Director
CNEU, Penn State
(e) rke2@psu.edu