



Nano News

The latest news on nanotechnology development in the Mohawk Valley



Nano Utica Overview

Nano Utica, New York State's second major center for nanotechnology research and development, is well underway with \$1.5 billion in investment transforming the Mohawk Valley. The public private partnership involves six global technology companies who will collaborate with educators in the Computer Chip Commercialization Center (Quad C) being built on the Marcy Campus of SUNY IT.



SUNY IT Computer Chip Commercialization Center (Quad C) Buildout Progresses.

Quad C's is progressing right on schedule. Tenants will begin taking temporary occupancy as early as October, and the planned date for completion of Phase One of the Quad C nanotechnology complex remains mid-December 2014.

In this issue: Special focus on Nano and advanced manufacturing training offerings, *PLUS* scholarship opportunities

Position yourself for the new economy by taking advantage of area training opportunities beginning this fall. Training in fields related to Semiconductor Chip Manufacturing are available at MVCC and SUNY IT; demand is strong for workers with CNC skills, electrical science, engineering and various trades. Enhance your skill set by engaging one of the many programs featured in this version of Nano News – and take advantage of scholarships to make this possible.

**Oneida County Workforce Development
announces the availability of scholarships to
support trainees who want to position
themselves for the “new economy”**



This week County Executive Anthony Picente Jr. launched the implementation of 'Vision 2020 Oneida County' with the report 'A Path Toward Prosperity' plan to assure that Oneida County is Workforce Ready. In support of that effort, Oneida County Workforce Development Director David Mathis has committed funds for scholarships to be made available to Oneida County residents. Under this initiative, trainees must embark on training in identified programs which will support the nanotechnology, semiconductor, electrical engineering/services and advanced manufacturing sectors. Training must result in industry-recognized credentials (certificate or degree) to be completed in two years or less. Workforce Investment Act Adult, Dislocated Worker and Youth (age 19-21) scholarships can be accessed by meeting with an Advisor at Working Solutions to develop an employment plan and submitting a scholarship application. In Oneida County, Working Solutions centers are located in Rome at 300 West Dominick Street (356-0662) and in Utica at the New York State Office building 2nd Floor (793-2229)



Prepare for nanotechnology with a degree in Semiconductor Manufacturing Technology

The nano chip manufacturing process is evolving with new methods of manufacturing that require new skills, greater automation, and a flexible workforce. MVCC's Semiconductor Manufacturing Technology degree meets these challenges!

Students receive instruction in circuits, electronics, computer programming, high-vacuum technology, modern production methods and statistical quality control, motors and controls, fluid mechanics, chemistry, and semiconductor manufacturing along with core English, math, social science, and physical education courses. Prepare yourself at MVCC with the technical knowledge, problem-solving, and teamwork skills necessary to get a job in the industry!

Prerequisites:

Two high school mathematics courses or equivalent and one year of laboratory science are required. Chemistry and physics are recommended.

Benefits of MVCC's Semiconductor Manufacturing Technology (SMT) program:

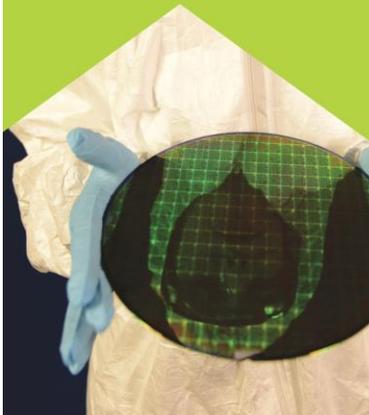
- Value
- High academic standards
- Small class and lab sizes for individual attention
- Modern laboratory equipment
- Emphasis on teamwork
- Theory and hands-on experience
- State-of-the art computer labs
- Scholarships and academic support
- On-campus career counseling and placement services



MVCC, PREPARING FOR NANO

START LEARNING ABOUT NANOTECHNOLOGY!

Nanotechnology is the science of “really small stuff.” It is also the next big thing coming into the Mohawk Valley and preparing for a career in nano is the next step to being a part of this exciting high tech industry. Nanotechnology is used in many industries including food science, materials science including textiles and polymers, sporting goods, biotechnology, pharmaceuticals, and environmental sciences just to name a few.



At Quad-C on the SUNY IT campus, nanotechnology will focus on electronics, semiconductor technology, and the material science of packaging, which includes high speed fabrication and engineering principles. Working in nano doesn't mean that you need a PhD! This is an interdisciplinary field where science and engineering meet to provide a wide variety of potential careers. According to the National Nanotechnology Infrastructure Network (NNIN), education and salaries for the nano industry range from:

Education Level	Time in College	Expected Salary Range
Associates Degree	2 years	\$35,000 - \$50,000
Bachelor's Degree	4 years (total)	\$40,000 - \$65,000
Master's Degree	6 years (total)	\$50,000 - \$80,000
Doctorate Degree	8-9 years (total)	\$75,000 - \$100,000

Getting started with your career in nanotechnology can begin right here in the Mohawk Valley with MVCC's Semiconductor Manufacturing Technology (SMT) Associates Degree. The SMT degree program will prepare students for careers in the manufacturing industry through both theory and hands on training, state of the art computer labs, and modern laboratory equipment. Students will study circuits, electronics, high-vacuum technology, computer programming, chemistry, modern production methods, and statistical quality control along with core English, math, social science and physical education courses.

Contact the MVCC Admissions Office
(315) 792- 5354 or by email at
admissions@mvcc.edu.

 **MVCC**
MOHAWK VALLEY COMMUNITY COLLEGE



Start Learning About Nano Now!

What is Nano?
(Leisure Learning)
You've heard all the buzz, now come and see what all the fuss is about! This lecture and hands on FREE class will answer all of your questions. Refreshments provided.

Please pre-register by calling
(315) 792-5300.

7/16, Wed
6:00pm – 8:00pm
Utica Campus, IT 225
CRN 34524

MVCC HVAC Students Tour Quad-C

In May 2014 students from MVCC's Air Conditioning Technology program, along with Assistant Professor Ken Klein, toured the facilities at Quad-C located on the SUNY IT campus. Upon arriving at the M & W Group construction site, the students participated in a brief presentation about safety procedures before suiting up in personal protection gear such as hard hats, safety glasses, reflective vest, and gloves.

As part of the tour, students were given an overview of the construction site and scope of the project. Students learned that numerous resources were required for a project of this scope and magnitude to become a reality here in the Mohawk Valley. An abundance of water, proximity to electrical transmission lines, and ample space were key elements for a successful nano center site. The tour also included a viewing of the installation of cooling towers and the installation of the office HVAC systems.



Students were able to see the massive exhaust system capable of quickly evacuating the air in a chemical emergency. While there are no plans to use chemicals on site, this system is in place as a precaution.

Students were also able to view the mechanical systems being installed in the building. Quad-C will be operational 24/7, 365 days a year and requires redundancy of equipment to ensure that there will not be any shutdown time. Shutdown time would result in millions of dollars of losses each day, which helps speak to the large highly trained personnel needed to maintain operations.

Contact the MVCC
Admissions Office
(315) 792- 5354
or by email at
admissions@mvcc.edu



mvcc.edu

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