

The Nanoscale Materials Technology program is part of a joint venture with SuperPower and Union College (both located in Schenectady, New York). Schenectady County Community College has received a \$1 million grant from the New York State Senate to renovate two laboratories for physics/electronics and vacuum science and to purchase an atomic force microscope, as well as optical microscopes, computers and software.

Salaries for technicians in this field range from \$30,000 to \$50,000. There are a growing number of firms in the Capital Region ready to hire newly graduated technicians.

Visit [techvalleycareers.org](http://techvalleycareers.org) for more information about this emerging field.

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## Department of Mathematics, Science and Technology

### Nanoscale Materials Technology A.A.S.



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## Nanoscale Materials Technology A.A.S.

The mission of the Nanoscale Materials Technology program is to provide a foundation in materials



science, chemistry, physics, mathematics, and electronics. With strong supporting courses in

Computer Aided Drafting, Vacuum Science and Technology, and Thin Film Deposition Techniques, students will be prepared for employment as highly qualified technicians in the emerging and highly technical semiconductor and superconductor manufacturing and research and development field.

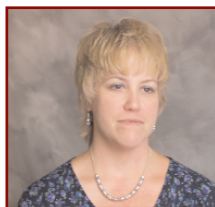


The new program is a perfect fit with New York's Tech Valley, a region that stretches from the Canadian border near Montreal to just north of New York City. Tech Valley is brimming with

opportunity and excitement as cutting-edge companies (nanotech, information tech, biotech and superconductor) move into the Capital Region. Tech Valley offers rewarding career and business prospects, world-class educational and research facilities and a fantastic quality of life.

Through the Nanoscale Materials Technology program, students can pursue paid internships including those at SuperPower, Inc., which provide invaluable career experience.

## Comments about the program from a Senior Scientist at SuperPower, Inc.:



Jodi Reeves, Manager of Quality Control, said technicians are already very much in demand. "That type of employee we need yesterday," Dr. Reeves said. "We've been around for more than seven years and it's really hard to find technicians with

the right level of math, science and chemistry that we can take into superconductor manufacturing."

Reeves continued, "Graduates of the SCCC program would be suitable for many other high tech companies in the area. I'm thinking of all the possibilities that exist with Albany Nanotech and semiconductor manufacturing. We would much rather hire people from the local area because they have ties to the community. They give back to the community and we have a high quality workforce."



"We need a variety of top-notch technicians at SuperPower. I joined SuperPower as a Test Technician in 2004 and was promoted to Senior Engineering Technician

after just six months on the job. I am also the Principal Technician for the Superconducting Fault Current Limiter project. I'm convinced that what I learned at SCCC has helped me to succeed at SuperPower."

— Phil Ardell, SCCC '04,  
A.A.S., Electrical Technology

## Program Requirements:

### First Year - Fall Semester

- CHM 121 General Chemistry I
- MAT 129 Algebra II or MAT 160 or higher
- CIS 121 Introduction to Computers or CIS 221 Adv. Computer Applications
- NMT 150 Introduction to Materials Science
- ENG 123 English Composition

### First Year - Spring Semester

- PHY 154 Physics II
- MAT 147 Statistics
- NMT 152 Introduction to Nanoscale Materials
- ELT 121 Circuits for Digital Systems I
- ENG 211 Technical Writing

### Second Year - Fall Semester

- CIS 129 Programming Fundamentals or CIS 134 C++/UNIX
- ELT 230 Electronics
- NMT 225 Introduction to Vacuum Science & Technology
- Social Science Elective

### Second Year - Spring Semester

- ELT 256 Process Control & Instrumentation
- NMT 280 Introduction to Thin Film Deposition and Quality Control
- CIS 140 Introduction to Computer Aided Drafting
- Humanities Elective

Minimum Credit Hours: 62