

Semiconductor Microchip Technology

Corcoran High School P-TECH Pathway

Syracuse City



The Career Field: Semiconductor technicians are highly skilled workers who test and manufacture semiconductor devices (which are commonly known as integrated circuits or microchips) being designed for use in many kinds of modern electronic equipment. They may also test samples of devices already in production to assess production techniques. They help develop and evaluate the test equipment used to gather information about the semiconductor devices. They assist in the design and planning for later production or help to improve production yields. Because of the need for an extremely clean environment, technicians are required to wear clean-suits (known as bunny suits) to keep dust, lint, and dirt out of the clean room where the production takes place. Changing into a clean suit is required for each and every entry to the clean room.

The Program: This program prepares students for careers in the semiconductor manufacturing industry. Students will be trained on state-of-the-art industry standard equipment and work in a simulated clean room. The program is orientated for students to learn monitoring, sustaining, and improving equipment. During hands-on projects, students will perform technical tests and experiments in the simulated wafer fabrication area and set-up and master the use of semiconductor processing equipment. Students will develop a solid foundation in mathematics and physical sciences as well as technical knowledge and good problem solving and teamwork skills.



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Career Opportunities

- » Semiconductor Manufacturing Technician
- » Semiconductor Equipment Technician
- » Fab Manufacturing Technician
- » Semiconductor Engineer
- » Test Engineer
- » Etch Process Engineer
- » Material Handler
- » Operations manager
- » General manager

Certificates & College Credit

- » Onondaga Community College
- » Syracuse University
- » Mohawk Valley Community College
- » OCC Electromechanical Certificate
- » OSHA 10 General Safety

Who

Any SCSD 8th grade student may apply to the Semiconductor Microchip P-TECH Pathway at Corcoran High School.

Cost

There is no cost for the Semiconductor Microchip P-TECH Pathway.

Where

Students in the Semiconductor Microchip P-TECH Pathway will attend Corcoran High School.

Apply

During the 8th grade year, students apply online at www.scsd.us or in person at the **Student Registration Center (1005 W. Fayette St.)**.

All applicants (accompanied by a parent or guardian) must complete an in-person interview with Corcoran staff.

Are you interested in how technology will shape the future? Are you skilled at troubleshooting electrical and mechanical issues?



Semiconductor Microchip Technology at STEAM may be for you!