

Discover High-Demand Jobs

MICROELECTRONICS & SEMICONDUCTORS

Applied, Hands-On Program Aligned with Industry Demand!

Our programs feature the Earn and Learn initiative, allowing students to earn an income while gaining valuable on-the-job training during their college journey. This hands-on experience equips you with real-world skills and enhances your resume, setting you up for success upon graduation.

Microelectronics

Program Overview:

- LCCC's Microelectronics Program offers an engaging, hands-on experience that prepares you for a career in the field. You'll gain valuable skills in designing, developing, manufacturing, and reworking printed circuit boards with MEMS sensors. Our industry-aligned curriculum is designed to equip you for entry-level technician roles.
- With **partnerships with over 90 microelectronics companies** in Northeast Ohio, our training meets industry needs, paving the way for your success in electronics manufacturing, microelectronic development, or PCB repair.
- The state-of-the-art labs are equipped for soldering, reworking, electronic testing, troubleshooting, prototyping, and circuit board design, providing you with the tools necessary to excel.



Semiconductors

Program Overview:

- The Semiconductor Cleanroom Maintenance Technician program is structured to provide students with the knowledge and skills necessary to **work as a cleanroom maintenance technician** in a semiconductor manufacturing environment.
- Training and education are provided in the fundamental concepts of semiconductor manufacturing, working in a cleanroom, vacuum pump application and maintenance, and introductory skills used in electronic measurement, pneumatics & hydraulics, blueprints, wiring diagrams, OSHA safety, fitness and wellness, and the use of Microsoft Windows, Office, and Teams software. The student will learn and apply principles in actual cleanroom activities while gowned up in a bunny suit.
- Courses taken within this one-year certificate are stackable into degrees such as Industrial Mechanical Technician, SMART Automation, and Microelectronic Manufacturing.

