TRAIN OH

Training & Recruitment Accelerated Innovation Network

Associate Degree in MEMS & Microelectronics TRAIN OH - Earn and Learn Program!

About MEMS & Microelectronics

Micro Electrical Mechanical Systems (MEMS) and sensor technology is a growing field. Now is the time to enter into the field of microelectronics manufacturing.

What is MEMS?

Microelectronics – microchips, microcircuits – very small electronic components that are driving the development of smaller, faster, cheaper devices that are changing how we work, how we communicate, and how we are entertained.

Microelectronics are used in innovative products everywhere, including the next generation of mobile consumer devices, biomedical, wearables, and Internet of Things (IoT) devices enabling more advanced hospitals, safer driving, and smarter factories, cities, and homes.

TRAIN OH is a new program at Lorain County Community College that is developing highly trained and educated talent for the microelectronic manufacturing industry. As the link between industry and education, LCCC combines a hands-on college degree with a paid internship to build the necessary skills sets for students to enter Ohio's microelectronics job market.

What are the benefits of becoming a TRAIN OH industry partner?

TRAIN OH companies form a partnership with Lorain County Community College to ensure a continuous talent pipeline. Industry partners also have the opportunity to hire students into full-time positions at the completion of the program.

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PROGRAM OVERVIEW:

Students have the opportunity to earn a short-term or one-year technical certificate that all credits lead to an associate degree. The TRAIN OH Earn and Learn program has a paid internship built into the program where students attend class two days a week and work 3 days a week with one of LCCC's industry partners. This program allows students to work in the field of microelectronics and apply the knowledge learned in the classroom.

Curriculum Guide:

Semester	Credit Course #	Credit Course Title	Credit Hours
Fall Semester 1	ELCT 111 ENGL 161 SDEV 101 TECN 122 MEMS 122	Electrical Circuits I College Composition I College 101 Technical Problem Solving Intro to Microelectrical Mechanical Systems	3 3 1 3 4
Spring Semester 2	CADD 111 ELCT 121 MTHM 121 MEMS 132	Intro to Computer Aided Design Digital Electronics Technical Math 1 MEMS Packaging	2 4 4 3
Summer Semester 3	CADD 216 AETC 192 MEMS 287 ELCT 115 MTHM 168	Intro to 3D Modeling Intro to Personal Fabrication Work-Based Learning 1 Fabrication Process of Electronics Statistics	1 1 1 2 3
Fall Semester 4	ELCT 233 CHMY 171 MEMS 288 MEMS 211	Electronic Devices I General Chemistry I Work-Based Learning II Micro-Fabrication Processing	4 5 1 3
Spring Semester 5	ENGL 164 MEMS 289 MEMS 221	College Composition II with Technical Topics Arts and Humanities Elective Social Science Elective Work-Based Learning II Micro-Systems Capstone Project	3 3 3 1 3

Total Semester Credit Hours 61

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