OhioTechNet

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SUCCESS STORIES
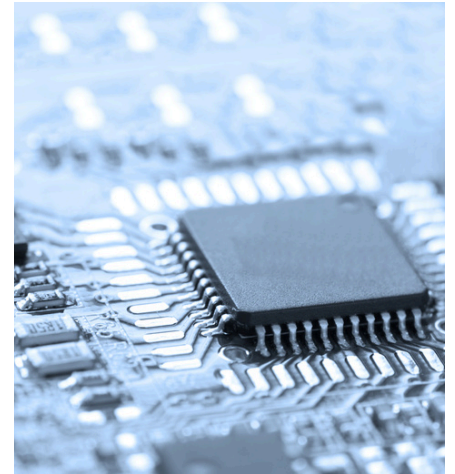
LCCC Expands Semiconductor Pathways via SERP

Lorain County Community College (LCCC) is expanding its semiconductor and robotics programs through Ohio TechNet's Semiconductor Educator Relaunch Program (SERP). With support from Intel and statewide partners, LCCC is increasing student access to college credit, industry credentials, and hands-on training aligned with high-demand careers in advanced manufacturing.

The Challenge

Across Ohio and nationally, the rise of semiconductor manufacturing has outpaced the education system's ability to deliver aligned training. High school and college students often lack access to structured pathways that combine technical skills, industry credentials, and college credit. At the same time, many educators are under-resourced or untrained to teach rapidly evolving technologies like robotics, microelectronics, and PLCs. To address these gaps, Ohio TechNet launched the Semiconductor Educator Relaunch Program (SERP), bringing together statewide partners to strengthen talent pipelines through coordinated educator training, curriculum development, and hands-on learning opportunities.

The Solution

In 2023, Lorain County Community College launched the Semiconductor Educator Relaunch Program (SERP) in partnership with Ohio TechNet, Intel, and the SEMI Foundation. Through this statewide initiative, LCCC is leading efforts to train educators, expand dual enrollment in robotics and microelectronics, and equip classrooms with advanced manufacturing technology. SERP supports the development of new curriculum, industry credentials, and experiential learning opportunities that help students earn college credit and build skills aligned with Ohio's growing semiconductor sector.

The Outcome

By mid-2025, the initiative has delivered tangible momentum across Ohio's semiconductor talent pipeline. Students are earning industry credentials in high school, completing dual enrollment coursework, and gaining real-world experience through internships at companies like Intel and Lincoln Electric. Faculty across K-12 and postsecondary institutions have received upskilling through statewide bootcamps, vendor-led trainings, and peer learning initiatives. New courses, credentials, and associate and bachelor's degree pathways have been developed or modified to align with industry needs. Through this progress, Ohio TechNet secured continued funding for a fourth year, allowing the expansion of programming, lab equipment, and educator training to reach more students and institutions statewide.