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UC Santa Barbara partners with SB City College to expand workforce training in micro/nanotechnology and semiconductor manufacturing

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September 9, 2024

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UC Santa Barbara and Santa Barbara City College have joined forces to expand a program that provides critical workforce pathways for micro/nanotechnology and semiconductor manufacturing. Supported by the National Science Foundation’s Division of Undergraduate Education’s Advanced Technological Education program and Intel, the collaboration builds on existing cleanroom training offered a a course by UCSB PaCE at UCSB’s California NanoSystems Institute to provide SBCC’s students and faculty with access to training and experience to help fill a demonstrated need in the high-tech industry.

“With increasing investment in semiconductor technologies in the U.S., it’s really important that we also support a talented and diverse semiconductor workforce,” said [Galan Moody](#), an associate professor in electrical and computer engineering at UCSB and a co-PI on the proposal. “This partnership does exactly that by providing

students with hands-on cleanroom training, certification and pathways to industry jobs.”

The program, an expansion of CCPRIME (Central Coast Partnership for Regional Industry-Focused Micro/Nanotechnology Education), will enhance relationships between industry and community college students and faculty; expand training activities in the cleanroom facility; broaden the community college educational pathway to high-tech manufacturing jobs and expand community engagement outreach and recruitment activities.

“Santa Barbara and Goleta are home to many cutting-edge high-tech semiconductor companies, and with this new NSF-funded program we will be able to provide a pathway for the local population to enter the semiconductor industry,” said UCSB nanofab scientist [Demis D. John](#). “Since 2022, NSF has already enabled SBCC students and others to get their foot in the door with our [1-week cleanroom ‘bootcamp’](#), hosted at UCSB. Over the next few years, we’ll now be able to expand that into a full educational program powered by SBCC curriculum and UCSB’s advanced facilities.”

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About UC Santa Barbara

The University of California, Santa Barbara is a leading research institution that also provides a comprehensive liberal arts learning experience. Our academic community of faculty, students, and staff is characterized by a culture of interdisciplinary collaboration that is responsive to the needs of our multicultural and global society. All of this takes place within a living and learning environment like no other, as we draw inspiration from the beauty and resources of our extraordinary location at the edge of the Pacific Ocean.