Lam Research, University at Albany Partner to Develop Future Semiconductor Engineers

UAlbany's College of Nanotechnology, Science and Engineering's program with Lam's Semiverse® Solutions gives students virtual hands-on experience in nanoscale manufacturing

News Summary

- Collaboration enables engineering students to gain practical, hands-on experience rarely possible outside of a semiconductor fab
- Lam will provide access to its Semiverse® Solutions virtual fabrication platform, lab materials and curriculum development support
- The collaboration supports Lam's global and regional goals for developing a highly skilled, creative and innovation-ready semiconductor manufacturing workforce
- The University at Albany's College of Nanotechnology, Science and Engineering pilot program is now underway

FREMONT, Calif. and ALBANY, N.Y., Nov. 23, 2026 /PRNewswire/ -- As the semiconductor industry races to meet growing demand for skilled engineering talent, Lam Research Corp. (Nasdaq: LRCX) and the University at Albany (UAlbany), a public research university in the State University of New York system, today announced that they are collaborating to help prepare aspiring engineers for careers in semiconductor manufacturing.

University at Albany engineering students get ready for the chip industry with SEMulator3D virtual fabrication software

Under a new agreement, UAlbany's College of Nanotechnology, Science, and Engineering (CNSE) will offer students hands-on learning using Lam's SEMulator3D® virtual fabrication software, part of the company's Semiverse® Solutions portfolio. The virtual twin platform will enable students to model, visualize, and experience nanoscale semiconductor chip manufacturing processes in a simulated environment. The program is expected to provide students with hands-on experiences that complement classroom instruction and expose students to technologies and workflows used in the semiconductor industry.

Building the Semiconductor Manufacturing Workforce of the Future

The semiconductor industry faces a growing talent shortage as next-generation chip technologies demand engineers with hands-on process integration experience — which many universities cannot provide because of the high cost of physical fabrication facilities, equipment, and materials. This collaboration bridges that gap directly, bringing industry-grade virtual fabrication tools into academic programs at scale. By integrating virtual semiconductor manufacturing experiences into academic pathways, Lam and CNSE aim to help students build foundational knowledge in process integration, technology development, and semiconductor manufacturing before entering the workforce.

"We're pleased to collaborate with CNSE to help prepare students for careers in our fast-growing industry, where AI is accelerating demand for engineering talent," said David Fried, chief AI officer and corporate vice president at Lam Research. "Lam's Semiverse Solutions virtual platform can help students put what they learn in the classroom to work on real-world chip manufacturing challenges before they ever set foot in a semiconductor fab."

Students will use SEMulator3D in coursework focused on semiconductor processing and nanoelectronics fundamentals. SEMulator3D is a semiconductor process modeling platform that uses advanced physics-based simulation to virtually replicate fabrication steps such as etch, deposition, and lithography, providing students the experience of designing, analyzing, and optimizing the hundreds of steps in a chip manufacturing flow without the need for physical wafers or a cleanroom. The platform will allow students to visualize how process steps interact and to better understand the relationship between engineering decisions and production outcomes, helping bring the complexities and nuances of semiconductor manufacturing to life.

"Lam's SEMulator3D simulation software helps bring the practical engineering and manufacturing aspects into the curriculum," said Bradley Thiel, associate dean for academic affairs at CNSE. "By providing a virtual fabrication environment, it provides exceptional visualization capabilities to help the students really understand how changing one part of the process can affect the overall outcome in semiconductor manufacturing. It is a fantastic teaching tool."

This collaboration builds on Lam's broader efforts to develop future semiconductor innovators through investments in university partnerships, workforce development initiatives, and science, technology, engineering, and mathematics (STEM) education programs around the world. Through these efforts, Lam is working to expand access to learning opportunities that help equip students with the skills needed to support the future of semiconductor innovation and manufacturing.

"Our partnership with Lam helps students better understand the manufacturing process and work through decisions they'll face on the job," said Michael Colello, director of CNSE's Semiconductor Workforce Innovation and Future Talent (SWIFT) Gateway. "It also supports our goal of making CNSE the flagship provider of semiconductor education in New York. Part of that leadership is sharing what we learn with our regional partners in the National Network for Microelectronics Education and helping build capacity across universities and colleges. Indeed, no single institution can meet the demand for engineers in the semiconductor industry."

About Lam Research

Lam Research Corporation is a global supplier of innovative wafer fabrication equipment and services to the semiconductor industry. Lam's equipment and services allow customers to build smaller and better performing devices. In fact, today nearly every advanced chip is built with Lam technology. We combine superior systems engineering, technology leadership, and a strong values-based culture, with an unwavering commitment to our customers. Lam Research (Nasdaq: LRCX) is a FORTUNE 500® company headquartered in Fremont, Calif., with operations around the globe. Learn more at www.lamresearch.com.

About CNSE

The College of Nanotechnology, Science, and Engineering at UAlbany unleashes greatness in engineering and computer science through five departments: Nanoscale Science & Engineering, Computer Science, Electrical & Computer Engineering, Environmental & Sustainable Engineering and Mechanical & Mechatronic Engineering. Students apply the core skills they learn in the classroom to internships and research.

About the University at Albany
The University at Albany is a Carnegie-classified Research 1 institution driven by academic excellence, pioneering research and scientific discovery, and service to community. UAlbany's world-class faculty experts and students are creating new knowledge in fields such as artificial intelligence, semiconductor engineering, atmospheric and environmental sciences, cybersecurity, public health, public administration and social welfare while deepening our understanding of our world through scholarship, public engagement and creative activity in the social sciences and humanities. As one of the most diverse public research institutions in the nation, the University is a national leader in educational equity and social mobility. For over 180 years, UAlbany has molded bright, curious and engaged students and launched them toward success.

Lam Research Contacts:
Laura Bakken
Media Relations, Lam Research
(510) 572-9021
publicrelations@lamresearch.com

Ram Ganesh
Investor Relations
(510) 572-1615
investor.relations@lamresearch.com

CNSE Contact:
Andrew McMains
Assistant Director of Communications and Outreach, College of Nanotechnology, Science, and Engineering, University at Albany
(518) 442-8741
amcmains@albany.edu

View original content to download multimedia:https://www.prnewswire.com/news-releases/lam-research-university-at-albany-partner-to-develop-future-semiconductor-engineers-302948338.html

SOURCE Lam Research Corporation