

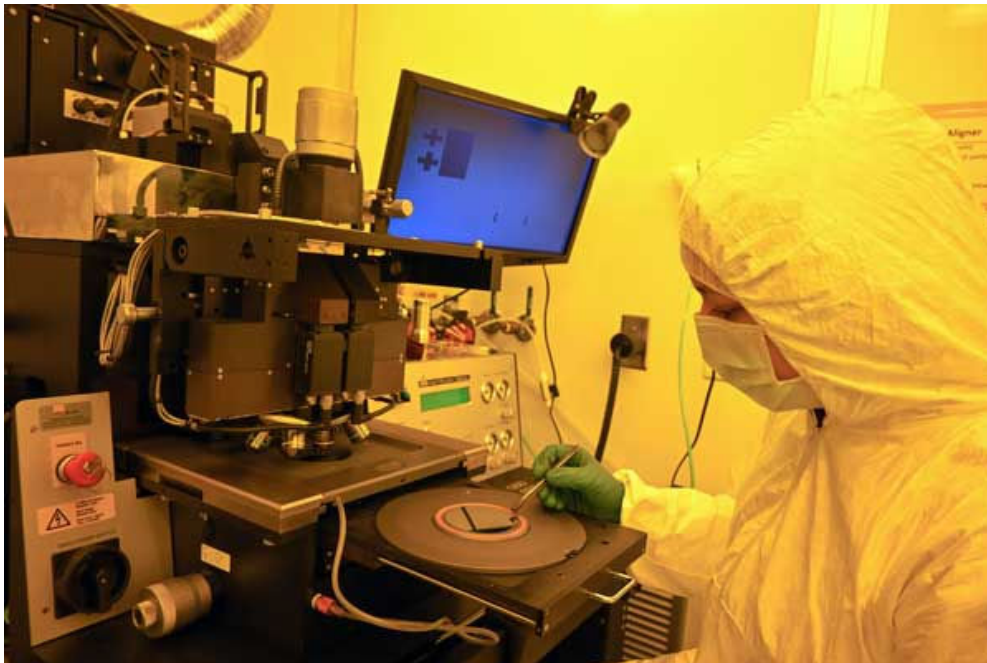
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News / National Science Foundation grant will help speed up semiconductor manufacturing



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WEDNESDAY OCTOBER 25, 2023

National Science Foundation grant will help speed up semiconductor manufacturing

A \$390,000 National Science Foundation grant will enable the University of Dayton to purchase equipment to create semiconductor chips and devices in hours rather than weeks, and at a significantly lower cost.

"With this direct-write laser beam lithography system, our researchers, faculty and students can quickly turn around their designs in our nanofabrication cleanroom," said [Andrew Sarangan](#), project leader and chair of UD's department of electro-optics and photonics. "This will be very attractive for students interested in our new undergraduate [minor in semiconductor manufacturing](#)."

In addition to UD's [department of electro-optics and photonics](#), researchers, faculty and students in UD departments of [electrical and computer engineering](#), [engineering management and systems technology](#), [physics](#) and [biology](#) will use the equipment.

[Read more about the award on the National Science Foundation website.](#)

"This award, in addition to previous investments in our human and physical resources by the National Science Foundation and Intel, further solidifies the University as a player in the semiconductor industry, including the burgeoning landscape in the state of Ohio," UD School of Engineering Dean Gül Kremer said.

In August 2022, [the University of Dayton joined leading Midwest research institutions in the Midwest Regional Network to Address National Needs in Semiconductor and Microelectronics](#) to support the semiconductor and microelectronics industry's research, supply chain and workforce needs.

A month later, [14 University of Dayton faculty and staff in six labs became part of the Intel-funded Ohio-southwest Alliance on Semiconductors and Integrated Scalable Manufacturing](#) to help develop a workforce for Ohio's semiconductor industry needs.

This past summer, with \$353,378 from the National Science Foundation, UD provided the next generation of researchers working on semiconductor materials and electronic and photonic devices a 10-week session where they received hands-on training and conducted research in the UD Nanofab Lab. The students' work also supported research at the Air Force Research Laboratory at Wright-Patterson Air Force Base.

Anyone interested in learning more about the University's semiconductor alliances can contact Sarangan at asarangan1@udayton.edu.

For interviews, contact Shawn Robinson, associate director of news and communications, at srobinson1@udayton.edu.

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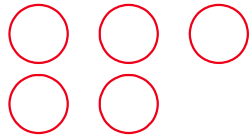
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