

MIND BENDERS.

CENTRAL TO SOUTH BEND'S PROMISING HIGH-TECH FUTURE IS THE MIDWEST INSTITUTE FOR NANOELECTRONICS DISCOVERY (MIND).



GREAT MINDS AT MIND.

The Midwest Institute for Nanoelectronics Discovery (MIND) is one of four critically important nanoelectronics research facilities established nationwide by the Semiconductor Research Corporation's Nanoelectronics Research Initiative (NRI).

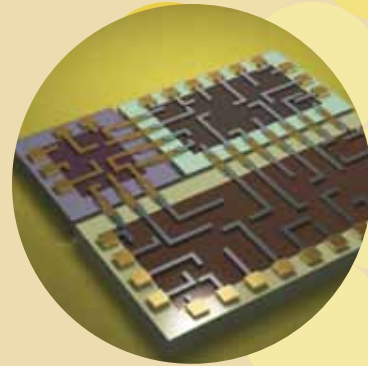
MIND will play a leading role in discovering and developing nanoscale computing devices that ultimately can replace the conventional complementary metal oxide semiconductor transistor technology used in most electronics. It is estimated to reach its technological limits by the year 2025. When successful, nanoelectronic innovations developed at MIND will result in devices, circuits and systems that will be faster, smaller and more powerful than those currently used in cell phones, computers and other electronic devices.

Led by the University of Notre Dame, MIND includes researchers from Cornell University, Georgia Institute of Technology, Pennsylvania State University, Purdue University, University of Illinois, University of Michigan, and University of Texas-Dallas. MIND is collaboratively linked with the National Institute of Standards and Technology, Argonne National Laboratory, and the National High Magnetic Field Laboratory.

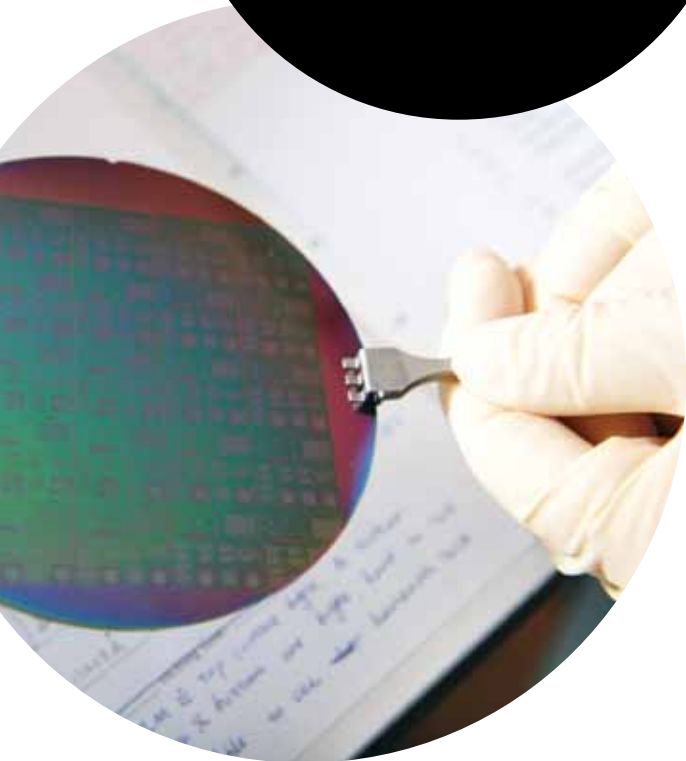
MIND is funded by the National Institute of Standards and Technology, along with a group of the world's leading computer chip makers — including IBM, AMD, Intel, Micron, Freescale Semiconductor and Texas Instruments.

MIND: A PRODUCT OF CITY-UNIVERSITY PARTNERSHIP

NRI Director Jeffrey Welser, Ph.D., notes that the strong partnership between South Bend and Notre Dame played a large role in the decision to base MIND in South Bend.



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PHOTOS COURTESY OF MATT CASHORE,
UNIVERSITY OF NOTRE DAME.

“NRI had been looking for game-changing locations with a strong research and development base, combined with economic support at the local and state levels,” Welser said. “And South Bend was one of those key locations.”

The University of Notre Dame’s technical work in nanotechnology was attractive to NRI, and according to Welser, “In my experience with the Semiconductor Research Corp., South Bend is the first city to have ever become this involved in supporting a university in its efforts to establish a nanoelectronic research facility.”

Specifically, the City of South Bend has committed \$1 million toward MIND’s research efforts, and it has pledged an additional \$50 million to support commercialization of research at MIND.

AN ENGINE OF ENTREPRENEURSHIP

South Bend’s proactive support for MIND is expected to attract and retain world-class research and development, spurring economic development in the South Bend area by attracting businesses that can tap into innovations developed at MIND.

MIND also will help stimulate the growth of start-ups at two sites comprising a new state-certified technology park in South Bend: Innovation Park at Notre Dame and Ignition Park.

While Innovation Park will facilitate commercialization for many forms of research, Ignition Park will concentrate on nanotechnology commercialization of MIND-inspired concepts, and on other high-potential technologies and ventures as they emerge.

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