MICRON & UI
SHAPING THE FUTURE TOGETHER
Innovation and discovery, paired with focused energy and a spirit of collaboration, truly have the power to change our world. The longstanding partnership between the University of Idaho and Micron is proof positive of that winning formula.

For over 30 years our institution, the state’s leading research university, has had a valued partner in Micron. Micron’s support has enhanced our university and strategic initiatives.

In Idaho, we have an opportunity to grow and thrive with technology and innovation. At UI we are determined to bring more students in to the innovative and rewarding STEM fields that offer exciting careers, as well as opportunities to address critical problems in emerging and growing industries.

In 2014, it was a great honor that the Micron Foundation awarded a $1 million gift to create an endowed professorship in microelectronics in our College of Engineering. Ultimately, this partnership is an investment in students and faculty, in much-needed research and in the potential of our state and our world. As we reflect on that success, we look forward to continuing our partnership to make future progress.

Chuck Staben
President

OUR THRIVING PARTNERSHIP

For over 30 years, Micron has invested in UI faculty for quality research and students for success in STEM fields.

A FOUNDATION OF INNOVATION

$192K
Department of Computer Science
1985

$100K
College of Engineering
1988-1989

$505K
College of Business & Economics Building
2000-2003

$15K
College of Engineering's Junior Engineering, Math and Science (JEMS) summer workshops
2002-2006

$450K
STEM Education Research Initiative
2011-2014

$1M
Micron Endowed Professor
2014-2017

$169K
Engineering Design EXPO
1999-2017

$138K
to date
Department of Electrical & Computer Engineering
2000-2017

$25K
Grand Challenges Scholars Program
2017

$596,191
Scholarships, students and employee matching

$618,750
Buildings and facilities

$4,718,498
Faculty and Research

$1,2M
STEM Education Research Initiative
2011-2014

$1M
Micron Endowed Professor
2014-2017

$5,933,439
Total Investments
SPARKING A PASSION FOR STEM

- The UI STEM Education brings together the many unique and impactful programs across the state from preschool to graduate school that prepare and inspire students to enter and succeed in STEM fields.
- University of Idaho has awarded over half of the bachelor's degrees related to STEM in the state of Idaho and has become our mission to meet the needs of the state.
- With the Micron Foundation’s five-year, $1.2 million leadership gift, university researchers identified many of the complex factors that shape STEM interest and learning. The university’s research findings are available to other researchers, decision-makers and stakeholders to increase the successful implementation of evidence-based innovations that increase STEM performance and competitiveness in Idaho and nationally.

FROM SKILLED STUDENTS TO DISTINGUISHED EMPLOYEES

Micron staff currently includes about 350 UI alumni with more on the way, thanks to our robust recruiting and internship programs. A total of 185 students were selected to intern for Micron historically. These are a few proud faces of the Micron - UI recruiting partnership.

UI COLLEGE OF ENGINEERING DESIGN EXPO

The annual Engineering Design EXPO is a hallmark event that showcases UI Engineering senior students’ capstone projects and provides hands-on learning. The EXPO is the Northwest’s longest-running interdisciplinary initiative featuring student innovations.

SUMMER CODING CAMPS

UI hosts coding camps around the state (Boise area, CDA, Moscow) for low-income students, minorities and girls. Camps are taught by UI computer science faculty and provide a fun and safe environment for middle and high school students to explore STEM. Computer science professor Terrence Soule teaches both teachers and students how to use coding tools to create projects that were presented by students during an afternoon showcase for parents, industry and other interested stakeholders.

UI maintains a fun and safe environment by partnering with Micron STEMbusUSA on coding laser tag to round out the camp’s focus on hands-on learning and innovation.

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MICRON ENDOWED PROFESSOR IN MICROELECTRONICS

University of Idaho welcomed the Micron Endowed Professor in Microelectronics, Vishal Saxena, in 2016. Professor Saxena focuses on energy efficiency in computing and communication for next-generation microchips. His Analog Mixed-Signal and Photonics IC (AMPIC) lab is developing novel solutions for energy-efficient chip-to-chip communication and data center interconnects, and new wireless chips for 5G and beyond.

“Since arriving at UI, Professor Saxena has convened engineering faculty from diverse disciplines to form the Neural Engineering and Brain Inspired Systems (NeuBIS) collective. Their goal is to use their collaborative understanding of the brain to develop new ultra-low-power Artificial Intelligence chips utilizing in-memory computing, which have strong synergy with Micron. NeuBIS’s shared laboratory is located in UI’s Integrated Research and Innovation Center building.

Professor Saxena’s work is also integral to the Next Generation Microsystems Research Center (nGeM), which advances the entire field of microelectronics and semiconductors through dynamic, interactive courses and sponsored research. nGeM students gain a deep understanding of the entire chip design process including layout, pre-silicon validation, fabrication, packaging and test.

Additional partner investments in microelectronics would increase research activity in integrated circuits and systems, and expand UI’s centers on Microelectronics and Systems Research. With Micron’s support, UI can continue its industry-leading research.

BUILDING ON A HISTORY OF INFORMATION ASSURANCE EDUCATION

Since 1999 UI’s Center for Secure Dependable Systems (CSDS) has been a leader in computer-related security education and research. The center’s CyberCorps® Scholarship for Service and Information Assurance Education program sponsored by National Security Agency and the Department of Homeland Security produces graduates with expertise in cybersecurity and defense.

ENHANCING TECHNICAL CERTIFICATION AND WORKFORCE TRAINING

At the UI Coeur d’Alene Center, the Cybersecurity Training and Operations Center (CTOC) offers professional opportunities to gain industry-backed credentials such as the Certified Information System Security Professional and Cisco Certified Network Professional Security. CTOC also collaborates with local businesses to demonstrate cybersecurity control measures to raise awareness of threats and vulnerabilities.

EXPANDING THE BREADTH OF CYBERSECURITY RESEARCH

With support from the Idaho Global Entrepreneurial Mission and the M.J. Murdock Charitable Trust, UI College of Engineering is leading cybersecurity and defense by developing new methods of protecting the Cyber Physical Control Systems that are vital to Idaho and the nation’s critical infrastructure. The effort includes strengthening collaboration with industry, fostering technology transfer and improving the talent pipeline.

IMPROVING AND INVESTING IN STATEWIDE FACILITIES

Through these initiatives, UI is developing a network of new facilities and laboratories that span the state, connecting Coeur d’Alene, Moscow, Boise and Idaho Falls. Fiber optics company Fatbeam donated two high-speed private fiber optics lines to UI’s Research Park to support the CTOC and workforce development in cybersecurity. In addition, UI will develop a Distributed Testbed for the Smart Grid and Industrial Control Systems Cybersecurity Research connecting laboratories across the state that builds capacity for research and instruction on cybersecurity of smart grid and industrial control systems.

ENGAGING PARTNERS

UI is working to continually grow the list of partners and industry leaders to offer more opportunities to students and faculty for training, research and engineering expertise in cybersecurity and computer science. The university is grateful to the following partners in this effort.

CyberCorps®: Scholarship for Service National Science Foundation
Fatbeam
Idaho Department of Commerce – Idaho Global Entrepreneurial Mission
Idaho Department of Labor
Idaho National Laboratory
Idaho STEM Action Center

M.J. Murdock Charitable Trust
Power Engineers
Schweitzer Engineering Laboratories, Inc.
State of Idaho
U.S. National Security Agency and the Department of Homeland Security

University of Idaho
uidaho.edu/micron

MICRON IMPACT REPORT
THE UNIVERSITY OF IDAHO STRATEGIC VISION

INNOVATE
• UI research expenditures for FY2016 totaled over $100 million, and UI’s annual research activity makes up 2/3 of Idaho’s total research within universities.
• UI is aggressively growing research activity to become the only R1 university in the state of Idaho.

TRANSFORM
• Increase overall enrollment 50% by 2025, including tripling the number of women students enrolled in the UI College of Engineering.
• Double the number of women in faculty positions in the UI College of Engineering by 2025.

CULTIVATE
• Significantly increase overall multicultural and international student enrollment, including those in the College of Engineering and the China 3 + 1 program.

ENGAGE
• UI contributes $1.1 billion to Idaho through developing a well-educated workforce, consumer spending, start-up and spin-off company impact, research expenditures and other factors.
• Through expanded industry partnerships and increased enrollment and research, UI will power Idaho’s economic engine to the tune of $2 billion by 2025.