Intel® Look Inside.™

Educate.
Empower.
Engage.

THE INTEL FOUNDATION
AT 25 YEARS

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LETTER FROM WENDY HAWKINS, EXECUTIVE DIRECTOR OF THE INTEL FOUNDATION

People often ask what I am most proud of over the 25-year history of the Intel Foundation. It is always a difficult choice. The brilliant students I meet every year at the Intel Science Talent Search and Intel International Science & Engineering Fair are a constant source of amazement and inspiration. The thousands of students who have been able to focus on engineering and computer science instead of worrying about paying for their studies make me proud. The thousands of Intel employees who have been inspired to give millions of hours of their time and talent to organizations that they believe in, and who have allowed us to help with matching grants, make me prouder. And the global expansion of our work to help over 10 million teachers around the world—allowing them to bring the world into their classrooms and prepare their students for the world—thrills me.

But truth be told, even more exciting to me than what the Foundation has done up until now, is what the Intel Foundation and Intel together will do in years to come. Whether making sure that girls around the world have a fair shot at an education and an equal chance to access the internet, or helping young people everywhere learn the skills to create and hold meaningful jobs, or inspiring them to tackle the scientific and engineering challenges they will find in medicine or the environment, and creating solutions to problems old and new, there is work for the Intel Foundation and exciting challenges for Intel and all its employees.

Shakespeare said that "what's past is prologue." After a quarter of a century of achievement, the future promises even more exciting challenges for Intel, its employees, and the Intel Foundation. Wait until you see our second act. In the meantime, come along as we tell a few stories about real people whose lives we're touching and the tangible impact we're making.

Degrees of Difference

BREAKING THE CYCLE OF POVERTY THROUGH EDUCATION, SUPPORT, AND TECHNOLOGY One-fourth of low-income college students never make it to their second year, and only 15 percent earn their bachelor's degree within five years. Those statistics—and the stories behind them—drove Alexandra Bernadotte to start Beyond 12, a nonprofit that aims to break the cycle of poverty by increasing the number of poor, first-generation students who graduate from U.S. colleges and universities. Its unique technology platform enables educators to track how students fare once they enter college and then tailor support, coaching, and teaching strategies.

Alexandra Bernadotte
Ashoka Fellow: One of nine Ashoka Fellows funded by the Intel Foundation.
Ashoka Fellows are leading social entrepreneurs recognized for innovative solutions to social problems and the potential to change patterns across society.
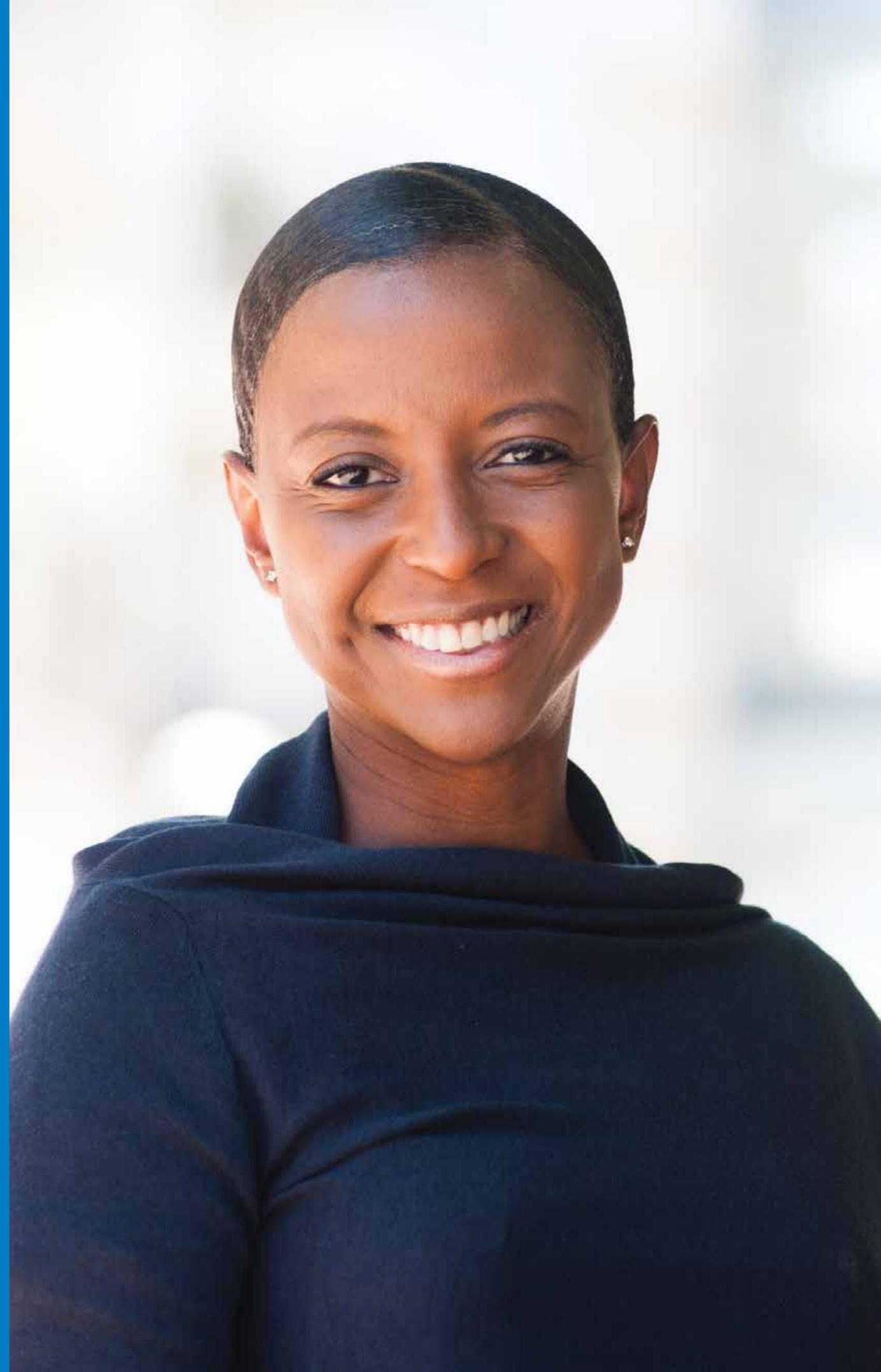
Peer-to-Peer Network

PLUGGING IN TO A WORLD OF LEARNING

Each of the 100 Computer Clubhouses around the world provides a creative, fun, and safe out-of-school learning environment for youth from underserved communities. At each club, young people connect with adult mentors to explore their ideas, develop new skills, and build confidence in themselves through the use of technology. The Clubhouse model fosters a community approach to learning and empowers young people to realize their full potential.

Intel Computer Clubhouse
Teenagers at the Casa de la Juventud Computer Clubhouse in Mora, Costa Rica, gather to share knowledge and learn from each other.

Respond,
Restore,
Transform

RECOVERING FROM DISASTER WITH LONG-TERM SOLUTIONS We believe that technology can be used to help solve some of the world's biggest challenges—including disaster recovery. So we combine donations, expertise, and technology for maximum impact. After initial relief efforts, we focus on long-term sustainable recovery—rebuilding schools with cutting-edge learning environments, training teachers to integrate technology in the classroom, ensuring that relief experts have the technology tools they need to function effectively in the field, and supplying the resources people require to support themselves.

Disaster Relief
An army of Intel volunteers in blue t-shirts give back to their communities every year in environmental cleanups, at local schools, and with non-governmental organizations. We're on the ground at times of crisis, and we stay long after recovery to ensure lasting change.

Intel® Learn
Children in the People's Republic of China learn to define and solve problems
in collaboration with their peers through Intel Learn.

Brain Power

CHANGING LIVES THROUGH LEARNING More than 1.5 million
young people in over a dozen countries have gained digital
literacy, critical thinking, and collaboration skills through the
Intel® Learn program.

Some examples: A classroom of Chinese students complete
a research project on leaking garbage trucks and moves
the local environmental sanitation department to use the
children's spill-prevention design. In Egypt, Fayma Aly and
her classmates start an adult-literacy program. Five Indian
girls inspire residents to take steps to prevent outbreaks
of infectious diseases.

Intel Learn encourages students to identify problems in their
communities and solve problems through technology.

Education Transformation

CHANGING HOW TEACHERS TEACH AND STUDENTS LEARN The People's Republic of China became the first country in the Intel® Teach professional development program to train more than 1 million teachers. Around the world, education leaders are turning to Intel Teach to change the way teachers teach and students learn. Intel Teach focuses on classroom practices that advance K-12 students' critical thinking, problem solving, and collaboration skills using today's technologies. Over a decade, the program has trained more than 10 million educators in 70 countries. In turn, they've reached more than 300 million children.

Intel® Teach
Shen Shusheng, professor from Nanjing Normal University, conducts an Intel Teach workshop in Zhengzhou, China in May 2012. One of the students, Cui Zhibing, said the training showed how the Internet can benefit his teaching." (The Internet is) an educational conference hall that transcends time and space and where congenial people exchange their ideas of education," he said.

Intel Teach and Intel® Learn were programs originally funded by the Intel Foundation. Today both programs are funded by Intel Corporation.

Ionut Alexandru Budisteanu
**Gordon E. Moore Award,
Intel International Science and Technology Fair**

Inspirational
Intelligence

INNOVATING FOR A SAFER WORLD

Ionut Alexandru Budisteanu dreams of making the world safer through technological innovation. Writing software since he was 10, the 19-year-old Romanian won the Gordon E. Moore Award for using artificial intelligence (AI) to create a working model for a low-cost, self-driving car. His prior inventions have included an AI system—inspired by his blind uncle—to help sightless people recognize images, software to identify natural disasters via satellite, and a method to spot burglars from mug shots using facial-recognition programs.
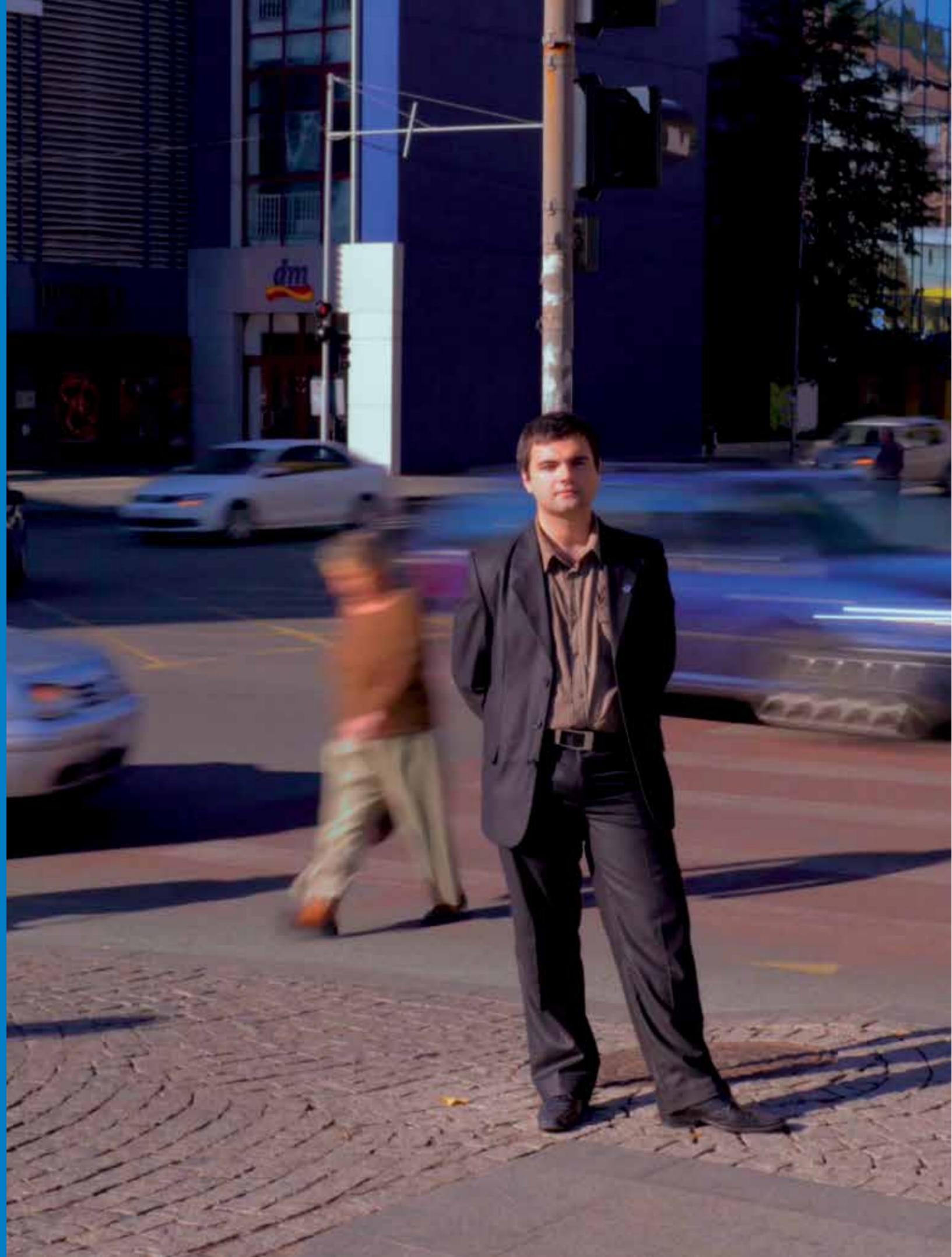
Pushing the borders of human knowledge

Inspired by her love of the outdoors and a passion for environmental science, Sara Volz, 17, of Colorado Springs, Colo., built a lab under her loft bed at home to research sustainable energy sources. Years of hard work finally led to a breakthrough: She developed an artificial selection method to make algae cells with high oil content, moving a step closer to an affordable biofuel. "For me, science is not even a subject or something you study," she says. "It's something you do. … It's this philosophical process of discovery and pushing the borders of human knowledge that really inspires me."

Sara Volz, First Place, Intel Science Talent Search
Jonah Kallenbach, Second Place, Intel Science Talent Search
Adam Bowman, Third Place, Intel Science Talent Search

Total Involvement

DONATING TIME, MONEY, AND EXPERTISE Whether getting their hands dirty or rolling up their sleeves, Intel employees donate time and talent to build inclusive, economically empowered, and environmentally sustainable communities. Intel Involved encourages, supports, and recognizes employees who volunteer in their communities.

In 2011, almost 44,000 Intel employees, about 50 percent of all Intel staff, contributed over 1.1 million hours of service at more than 5,200 schools and organizations in 45 countries.

Future Lab

INVESTING IN TOMORROW'S RESEARCHERS TODAY More than 300 undergraduate students at 15 institutions participated in hands-on, relevant industry research this past year as part of the Undergraduate Research Opportunity (URO) program. The program aims to attract a diverse group of talented students to study science and engineering disciplines relevant to the semiconductor industry and inspire more of them to pursue graduate school and industry careers.
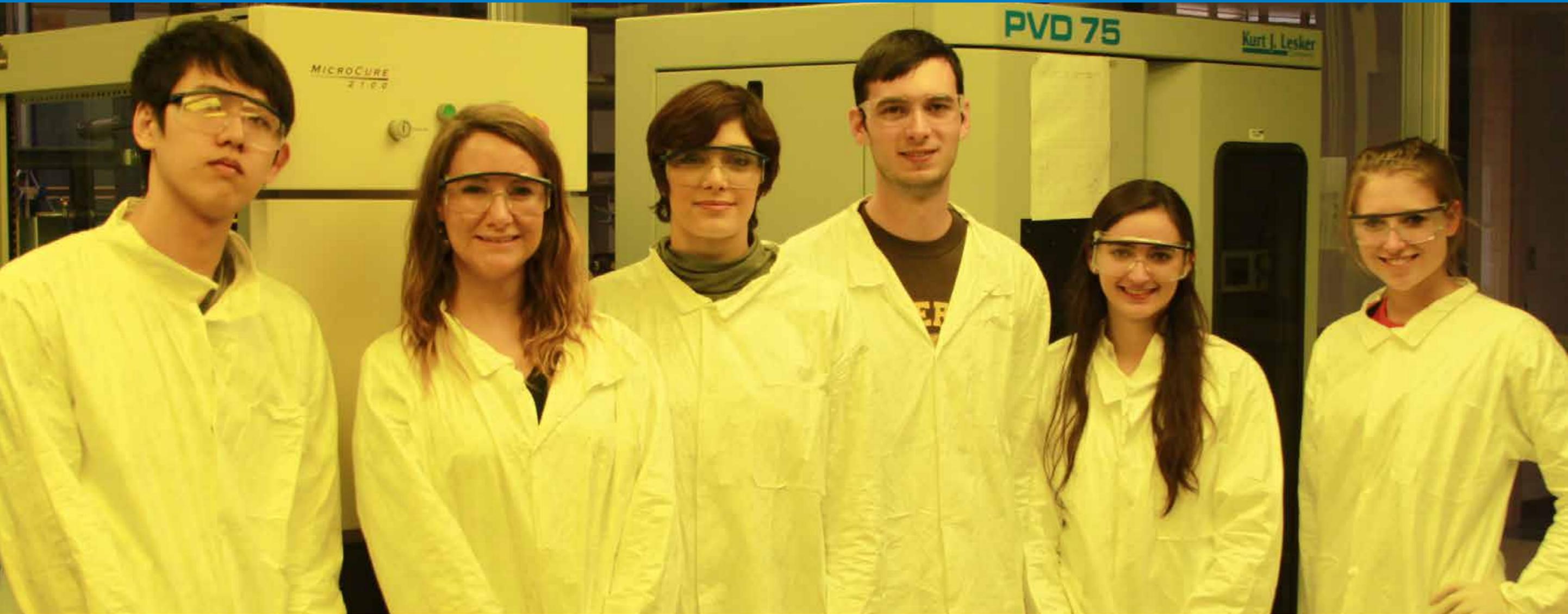
URO (Undergraduate Research Opportunity)
These students in the Undergraduate Research Opportunity program studied the viability of variable-frequency microwave curing—a significantly faster, cooler, and lower-cost method of insulating copper wiring and interconnects for microelectronic devices and packaging.