intel®
Education

The World Ahead
Starts Here

Intel® Education Initiative

"Education should incorporate technology not as an end in itself but as a means to promote creativity, empowerment, and equality, and produce efficient learners and problem solvers. Intel is a key partner in helping us meet these objectives."

Ms. Zubaida Jalai, Former Federal Minister, Ministry of Education, Government of Pakistan

Empowering 21st Century Teaching and Learning

Education is the key to success in today's world. The global knowledge economy demands that young people develop 21st century skills like digital literacy, problem solving, critical thinking, and collaboration. It requires that they use technology to access the extraordinary wealth of knowledge available through the Internet. They must also excel in mathematics, science, and engineering—the building blocks of technical innovation. For the young people mastering these 21st century skills, the world ahead starts here.

Opening Doors Through Education

As a global technology leader, Intel is committed to enhancing lives by accelerating access to uncompromised technology for everyone, anywhere in the world. To this end, Intel's involvement in education is longstanding and profound. Since the company was founded in 1968, Intel has invested more than USD 1 billion to improve teaching and learning, and to encourage excellence in math, science, and engineering education. This investment is creating opportunities and opening doors in the world ahead.

Intel® Education Initiative

The Intel® Education Initiative is a sustained commitment to prepare all students with the skills required to thrive in the knowledge economy. Through collaboration with educators and governments in more than 50 countries, Intel works to improve teaching and learning through the effective use of technology, and to advance mathematics, science, and engineering education and research. Intel's education programs are adapted to the needs of individual countries and utilize an approach focused on building local competency for teacher training and technology innovation.

Improving Teaching and Learning

Intel works to improve teaching and learning through the effective use of technology, in both formal and informal educational environments. The Intel® Teach Program offers professional development for teachers so that they can cultivate innovative learners and critical thinkers. Since learning neither begins nor ends at the schoolhouse door, Intel Education also delivers engaging after-school and community-based education programs to promote technology literacy and 21st century skills among underserved populations.
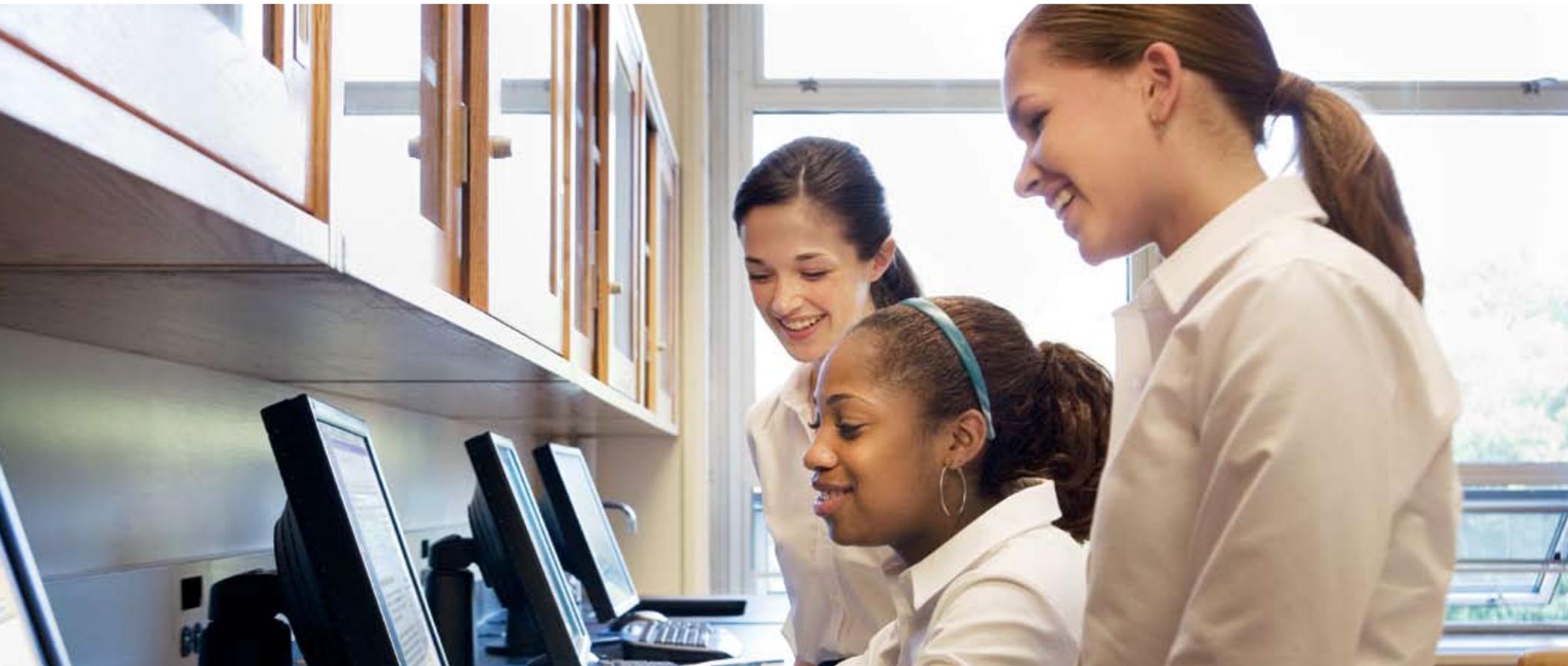
Professional Development

The **Intel® Teach Program** is a proven, worldwide professional development program which helps educators, both pre-service and in-service K-12 teachers, learn the optimal ways to integrate technology tools and resources into their own lessons to promote 21st century learning, and student-centered practices in the classroom.

The program delivers a range of offerings, including both face-to-face and online instruction, designed to enable teachers to introduce, expand, and support project-based learning techniques in the classroom. The instruction is enhanced by a robust set of practical, engaging resources available on the Intel Education Web site (www.Intel.com/education).

Through an unparalleled, sustained public-private partnership with educators and governments, the program incorporates flexibility to adapt to a country's evolving circumstances and the readiness of individual teachers. With more than 3.5 million teachers trained in more than 40 countries, Intel Teach is the most successful educator professional development program of its kind, improving teachers' ability to incorporate technology in their curriculum and instruction since 1999.

Community Education

The **Intel® Learn Program** enables underserved youth ages 8–16 to learn technology, critical thinking, and collaboration skills using an engaging, project-based curriculum in an after-school, community-centered setting. Focused on meeting the needs of emerging markets where young people may have limited access to technology, the Intel Learn Program has helped more than 350,000 learners in nine countries gain the access and instruction to acquire today's critical skills.

Independent evaluation results conducted by the Center for Technology in Learning at SRI International show that the Intel Learn Program successfully supports development of the 21st century skills it was designed to promote: digital literacy, critical thinking, and collaboration.

The **Intel Computer Clubhouse Network** is an after-school, community-based learning program that enables youth in underserved areas to access cutting-edge technology and become self-confident, motivated learners. At each Clubhouse, students create projects based on their own ideas. One Clubhouse member might be creating a Web site, while another records music or produces a video. Based on a learning model created by the Boston Museum of Science in collaboration with MIT Media Labs, the Intel Computer Clubhouse Network has served 50,000 young people at more than 110 clubhouses across 20 countries.

"I applaud creative projects such as the Intel Computer Clubhouse Network because they combine education and the hands-on use of technology."

Congressman David Wu, United States

Advancing Math, Science, and Engineering Education and Research

Technology is the engine of innovation in today's knowledge economy. For countries to compete successfully, they must develop local pipelines of math, science, and engineering talent. This is why Intel supports programs to promote math and science in elementary, secondary, and higher education. For elementary and secondary education, Intel sponsors science competitions, professional development training programs, and media-rich educational content aimed at encouraging students' enthusiasm for and long-term interest in math, science, and engineering. In its higher education efforts, Intel brings cutting-edge technology expertise to university campuses, encourages students to pursue technical degrees, and helps move technology into local economies.

Science Competitions

With its nearly decade-old primary sponsorship of two of the world's most prestigious pre-college science competitions, Intel has created countless learning opportunities through authentic scientific inquiry and independent research.

The **Intel International Science and Engineering Fair (Intel ISEF)**, the world's largest pre-college science competition, brings together more than 1,400 young scientists from more than 40 countries, regions, and territories to share ideas, showcase cutting-edge science, and compete for over USD 4 million in awards and scholarships. The finalists are selected from more than 550 Intel ISEF-affiliated fairs held worldwide. Through these affiliate competitions, Intel ISEF encourages literally millions of participating students to pursue their interest in math and science. As part of Intel ISEF, the Educator Academy brings together a select group of educators and government officials from around the world to explore proven, innovative methods of engaging students in the study of science and math.

The **Intel Science Talent Search (Intel STS)** is America's oldest and most prestigious pre-college science competition--often considered the "junior Nobel Prize." Alumni of the STS have made extraordinary contributions to science and hold more than 100 of the world's most coveted science and math honors, including 6 Nobel Prizes, 3 National Medals of Science, 10 MacArthur Foundation Fellowships, and 2 Fields Medals.

skoool™ Learning and Teaching Technology

The skoool™ Learning and Teaching Technology program provides online learning resources designed to help secondary-level students understand and explore key mathematics and science concepts (www.skoool.com). The program is designed to exemplify the benefits of high-quality, multimedia technology and stimulate wider use of these technologies to advance student education around the world. Teachers may integrate these tools and resources into a learning plan to help students understand and explore key concepts.

Intel® Higher Education Program

As students progress to higher education, it becomes even more crucial that they are prepared to continually innovate and contribute to the advancement of technology in their local economies. The **Intel® Higher Education Program** is a worldwide effort focused on advancing technology innovation and developing diverse pipelines of local technical talent. Through a sustained collaboration with more than 150 universities in 34 countries, Intel brings cutting-edge technology expertise to university campuses that not only encourage students to pursue technical degrees, but also help move technology out of classrooms and into local economies where it can create real opportunity.

The **Intel® Higher Education Curriculum Forum** enables universities to develop and share new curricula for important emerging technologies such as parallel programming for multi-core architecture. This gives faculty and students accelerated access to state-of-the art curricula.

Research and entrepreneurship activities promote critical fields of technical study, and engage local communities through research grants, technology entrepreneurship forums, and mentoring by Intel technologists.

Student support programs are tailored to meet the specific needs of a country or region—often with a common theme of encouraging students to pursue advanced degrees. Fellowship and/or scholarship programs promote advancement of technology by providing students with mentors from Intel, internships at Intel, and tuition/stipend support.

Enabling Success in the 21st Century

Today's technologies create unprecedented possibilities. Entrepreneurs worldwide are able to innovate and create opportunities that could not have been imagined a decade ago. The skills to effectively access, analyze, adapt, and share the information these innovations make available are the skills needed for success in the 21st century. These are the skills the programs of the Intel® Education Initiative effectively promote in elementary and secondary schools, community education, and higher education, all over the world.

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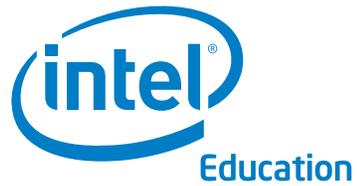
Technology leadership, community commitment

Intel is the world's leading innovator in advancing silicon technology, with more than 35 years of leadership in computing and communications. In addition, Intel is a leader and contributing member in the global community, inspiring people through educational initiatives and outreach efforts.

Learn More

To learn more about how Intel helps governments, universities, schools, and educators prepare youth for the demands of tomorrow, visit:

www.intel.com/education

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