

INTEL® INNOVATION GENERATION

Overview

Intel was founded by inventors, and the company's continued existence depends on innovation. We recognize that the health of local economies—including those where our employees live and work—is improved by access to technology and quality education that prepares individuals for the jobs of the future. As the pace of technological progress accelerates, we're entering a "Fourth Industrial Revolution" that will require new skills and experiences for youth to be successful in the future. We believe technology is a force for positive social impact and has the power to be a great equalizer, but only if everyone has access to it. We want to redefine what it means to be an innovator by expanding who has access to technology skills and experiences.

To address this emerging global challenge, Intel created a new initiative called **Intel® Innovation Generation** to build a movement to close the global youth skills gap. Our strategy focuses on underserved youth, helping ensure the next generation of innovators is diverse, inclusive, and empowered. Intel is catalyzing an ecosystem of partners—from governments to NGOs to our own Intel Employee Service Corps volunteer program—to bring together the best ideas, innovative practices, and action-oriented leaders to inspire young people and expand access to opportunities that will help them succeed and innovate using the power of technology.

Intel Innovation Generation includes four key programs:

- **Make Tomorrow.** Inspiring more young people to become innovators, creators and problem solvers by connecting them to technology-focused maker experiences and a global virtual community of other youth innovators.
- **Future Skills.** Collaborating to close critical gaps and transform today's workforce development and youth empowerment programs through the infusion of technology curricula, hands-on innovation experiences, and employability skills training.
- **She Will Connect.** Accelerating closure of gender gaps in technology access and career paths by empowering more girls and women to use technology, connecting them to economic and social opportunities and inspiring them to become future innovators.
- **Higher Education.** Working with higher education institutions to integrate technology across academic disciplines to ensure a broader range of students can apply technology to make a difference in their communities and the world.

We are also leveraging the passion and expertise of our own employees to advance the social impact of the initiative by aligning our **Intel Employee Service Corps** skills-based volunteer program to directly support the new initiative.

Our goal: Inspire and empower young people around the world through technology, closing the global youth skills gap and ensuring that the next generation of innovators is empowered, more diverse and inclusive.

Program Descriptions

Intel® Make Tomorrow: Inspiring young people to become innovators, creators and problem solvers by connecting them to technology-focused maker experiences and a global virtual community of other youth innovators.

- Intel has developed training modules and curriculum to help youth understand what it means to be a "maker" and why it matters in our rapidly changing world. Technology-focused maker activities provide hands-on experiences for youth to create something important to them or address a problem that matters to them and others in their community.

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- The program is committed to ensuring that all youth—particularly those facing inequalities—can gain access to technology and innovation experiences. We are working with local organizations to reach youth where they are and create maker experiences in accessible community spaces.
- Participants will develop critical innovation skills needed in the future—including computational thinking, new-media literacy and social intelligence. Completed maker projects also provide youth with a portfolio of accomplishments to demonstrate their technology skills and abilities.
- We also are partnering with organizations focused on makers to create a supportive virtual global community to provide ongoing inspiration and support to young makers and to provide them with the opportunity to share their ideas and projects with others.

Intel® Future Skills: Collaborating to close critical gaps and transform today's workforce development and youth empowerment programs through the infusion of technology curricula, hands-on innovation experiences, and employability skills training.

- Intel is building on our deep expertise in education and community partnerships to fill critical gaps that currently exist in workforce development programs by developing and integrating technology and innovation curriculum and experiences to support youth employability skills.
- The current rapid pace of technological advancement are fundamentally changing the skills needed for the jobs of the future. Future Skills is focused on directly addressing inequalities that may result from this radical shift in the future of work.
- In the U.S., we are prototyping a 14-week program in North Las Vegas (in collaboration with a community-based workforce development nonprofit) designed for out-of-school, unemployed, under-employed, and/or low-skilled youth (ages 18-24) to prepare them with the skills and exploratory mindset required for the evolving jobs of tomorrow. Our goals is to help participants: (1) secure employment (2) start their own business (3) continue their education, or (4) create technology solutions. Our intention is to expand this model to other U.S. cities in 2017 and include training on emerging technologies.
- In India, we are collaborating with the government and other local partners to design and build ten prototype "tinker labs" within local schools and community organizations to provide disadvantaged youth with the opportunity to learn technology skills, develop a design mindset, and be inspired to innovate. The plan is to use these first ten labs as the model for building 490 more across the country.

Intel® She Will Connect. Accelerating closure of the gender gaps in technology access and career paths by empowering more girls and women to use technology, connecting them to economic and social opportunities and inspiring them to become future innovators.

- At Intel, we are committed to opening doors to opportunity for girls and women by empowering them with technology skills. Through Intel® She Will Connect, Intel is focused on closing two key gaps: (1) in emerging markets, we are working to connect more women to the Internet and to basic technology skills so they can access information and new economic and social opportunities; and (2) in mature markets, we are working to intervene earlier in the process (middle school) where girls decide whether to aspire to technology careers.
- In sub-Saharan Africa, the program is we are focused on closing the Internet gender gap by connecting millions of women to opportunity through digital literacy skills and technology access. Using their new skills, women are connecting to new information and educational, financial, health and gender-specific resources, and e-government services to achieve their own goals. This also has an important multiplier effect—expanding opportunities for families, communities and nations.
- In the U.S., the program is connecting middle school girls to new technology skills and maker experiences to inspire them to become innovators and spark their interest in technology, engineering, and computer science. We want to inspire them to become future technology creators and innovators.

Intel® Higher Education. Working with higher education institutions to integrate technology across academic disciplines to ensure a broader range of students can apply Intel technology to make a difference in their communities and the world.

- Universities play a critical role in addressing today's global challenges by preparing tomorrow's workforce and supporting cutting-edge academic research. Intel's products power the cloud and the billions of smart, connected computing devices, transforming whole industries and the world in which we live. Offering students and professors access to Intel's game-changing technology will ensure that they tackle these issues in the most efficient and innovative ways possible.
- Proficiency and innovative utilization of Intel technologies provides a marketable advantage for college-ready individuals—from students seeking the best jobs at the best companies to students seeking to become innovative social entrepreneurs. To inspire and prepare students for solving challenges that matter most to them using Intel technology, Intel develops innovative programs, advanced technology and quality curricula.
- Intel is equipping professors and researchers with the tools they need to inspire and help students develop the skills they need to succeed and build their own vision of the future. We collaborate to advance research and education in microprocessor technology, high-volume manufacturing, computer science, artificial intelligence, security, connectivity and other disciplines critical to creating quality jobs in our industry and to applying technology to solve global challenges. Intel brings deep experience and a breadth of technology solutions to meet the needs of today's universities and move students, professors and the world forward.

Q&A

What is Intel® Innovation Generation?

Intel® Innovation Generation is a new initiative designed to close the global youth skills gap by empowering youth around the world with new technology skills and experiences. Our strategy focuses on underserved youth, helping to ensure the next generation of innovators is diverse, inclusive, and empowered. The initiative includes four key components: (1) maker activities and experiences to inspire innovation, (2) future skills training to advance employability, (3) programs to empower university students to solve challenges using technology, and (4) programs to accelerate closure of the technology gender gap.

How is Intel Innovation Generation related to Intel's new business strategy?

Rapid technology changes are now fueling a "Fourth Industrial Revolution" which is fundamentally altering the way we live, work, and relate to one another. Intel technology is a catalyst for this revolution, driving a virtuous cycle of growth in which the cloud and data center, the Internet of Things, and memory are bound together by connectivity and which makes possible breakthrough technologies such as self-driving cars, autonomous robots, machine learning and smart factories. More connectedness means more opportunities, more diverse ideas, and more realized potential around the world. But we also recognize that these changes have broad implications for the technology and innovation skills that today's youth will need in order to succeed in the future and could drive increased inequalities without collective action and investment.

How does this initiative align with Intel's overall corporate responsibility strategy?

Throughout our history, Intel has continuously expanded the reach, influence and power of computing to improve people's everyday lives. Through our commitment to corporate responsibility we work to drive progress for society and set bold goals in the areas of environmental sustainability, supply chain responsibility, diversity and inclusion, and social impact. These initiatives, built on a strong foundation of transparency, governance, and ethics, also create value for Intel and our stakeholders by helping us mitigate risks, reduce costs, build brand value and identify new market opportunities. Intel Innovation Generation is our new flagship

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social impact initiative designed to leverage the power of our technology, our employee expertise, and our partner ecosystem to catalyze change on one of the biggest challenges of today – closing the global youth skills gap.

How does this build on Intel's history of work in education?

Over the past decade, Intel has invested millions in education programs around the world. We're proud of our work to support and nurture young minds and, as a company, we are increasingly concerned by the widening gap in access to technology and the tools of innovation for youth in the U.S. and around the world. As we move forward, we will leverage our experience and resources to broaden access to technology for youth worldwide and respond to emerging gaps, challenges and opportunities. From expanding our focus on closing the youth technology skills gap and inspiring young makers, to deepening our work to empower girls and women, we see tremendous opportunity to work in partnership with others to broaden our impact.

Is Intel still committed to education and STEM?

Yes. Intel's commitment to investing in STEM education and empowering people to improve lives through technology runs wide and deep. In fact, over the past decade, we have invested millions of dollars in education programs around the world. Intel has been a leader and will continue to lead as we begin the next chapter in our ongoing mission to inspire, educate and engage the next generation of innovators in the U.S. and around the globe. While the mix of activities we support is evolving under our new strategy, investing in STEM education has never been more important for Intel, a company that relies more than most on the talents of bright people with backgrounds in science, technology, engineering and math. We are committed to continuing to support STEM education and future innovation by providing opportunities for a wider and more diverse cross-section of youth around the world to participate in programs that inspire them and encourage them to pursue careers in technology. We see this as an important way to drive lasting social impact.

Is Intel making new investments in support of Intel® Innovation Generation?

Yes. In support of the new initiative and supporting programs, Intel is supporting the development of new curricula, technology resources, and program models, including:

- Intel has developed new technology-based curriculum for use by **Future Skills** program partners on employability skills and teaching skills related to new technologies, including drone technology. We also developed guidebooks/specs and prototypes to help others learn how to create safe, engaging, and cost-efficient innovation spaces in their local communities.
- In support of our **Make Tomorrow** program strategy, Intel is funding the creation of a new virtual global community in collaboration with Maker Media to support young makers and to provide them with the opportunity to share their ideas and projects with others which will launch in mid-2017.
- To scale the impact of our **She Will Connect** program in sub-Saharan Africa, we built a new mobile learning lab equipped with laptops, digital training, and education content – called the Intel She Will Connect Caravan—to provide a model for how to bring technology access and training to women in hard to reach areas. Based on the success of the project, the Kenyan government is looking at funding the creation of 14 more caravans in support of its gender empowerment goals and a Canadian NGO committed to building eight more caravans for use by local Kenyan organizations in 2017.
- We are expanding our **She Will Connect** program in the U.S. to empower middle school girls. The Intel Foundation recently initiated a \$1 million RFP process to fund coalitions of partners to drive collective impact to empower middle school girls in Arizona through technology, engineering, and computer science skills and experiences.

What is the Intel® Future Skills Program?

Intel is collaborating to close critical gaps and transform today's workforce development and youth empowerment programs through the infusion of technology curricula, hands-on innovation experiences, and

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employability skills training. We have developed and are currently running two prototypes to test new models and technology curricula with local community organizations and governments, including in: (1) North Las Vegas prototype, designed for out-of-school, unemployed, under-employed, and/or low-skilled youth to help them develop the skills and exploratory mindset required for the evolving jobs of tomorrow and; (2) India where we are collaborating with the government and other local partners to design and build ten prototype “tinker labs” within local schools and community organizations to provide disadvantaged youth with the opportunity to learn technology skills, develop a design mindset, and be inspired to innovate. The plan is to use these first ten labs as the model for building 490 more across the country.

What is Intel doing related to Maker activities?

We are empowering more young people to become innovators, creators and problem solvers by connecting them to technology-focused maker experiences and communities. Technology-focused maker activities provide hands-on experiences for youth to create something important to them or address a problem that matters to them and others in their community. We are working with local organizations to reach youth who have traditionally not had access to maker or innovation experiences, meeting them where they are in accessible community spaces. We are also partnering with organizations focused on makers to create a supportive virtual global community to provide ongoing inspiration and support to young makers and to provide them with the opportunity to share their ideas and projects with others. Intel sponsors a wide range of maker activities and partnerships that inspire students to apply technology in hands-on innovation activities, including “Maker Faires” and development of curriculum around circuits, coding and making that use hands-on activities and readily available electronics kits and software tools. In 2017, the Intel Foundation will also be partnering with the National Urban League to provide support for a new maker-related program called Project STEAM. The program aims to help African American and other urban students learn to create, not simply use, new technologies with the goal of preparing them to attend two-year technical schools or four-year colleges. Through the China – U.S. Young Maker Competition, Intel supported young makers from both countries to come together to build innovative projects that solve real world problems using technology.

What is Intel's current higher education strategy?

From teaching resources and student courseware in STEM subjects to world-class research collaborations and technology competitions, Intel has invested over \$670 million in university programs since 2001 to foster and promote the next generation of technology innovators and leaders. Intel is now working with higher education institutions to integrate technology across multiple academic disciplines to ensure a broader range of students can apply Intel technology to make a difference in their communities and the world. Universities play a critical role in addressing today's global challenges by preparing tomorrow's workforce and supporting cutting-edge academic research. Intel's products power the cloud and the billions of smart, connected computing devices, transforming whole industries and the world in which we live. Offering students and professors access to Intel's game-changing technology will ensure that they tackle these issues in the most efficient and innovative ways possible.

What is Intel doing to empower girls and women through technology?

Intel is committed to opening doors to opportunity for girls and women by empowering them with technology skills. Through the Intel She Will Connect program, Intel is focused on closing two key gaps: (1) in emerging markets, we are working to connect more women to the Internet and to basic technology skills so they can access information and new economic and social opportunities; and (2) in mature markets, we are working to intervene earlier in the process (middle school) where girls decide whether to aspire to technology careers. In sub-Saharan Africa, we are focused on closing the Internet gender gap by connecting millions of women to opportunity through digital literacy skills and technology access. At the end of 2016, our work in Africa reached 1.3 million women with approximately 200,000 through face to face training. In the U.S., Intel is connecting

middle school girls to new technology skills and maker experiences to inspire them to become innovators and spark their interest in technology, engineering, and computer science.

How are you involving your employees in the initiative?

We are leveraging the passion and expertise of our own employees to advance the social impact of the initiative by aligning our **Intel Employee Service Corps**. skills-based volunteer program to directly support the new initiative. Through the program, employees apply through a competitive application process, undergo training and then travel in teams to complete challenging assignments to help local organizations deploy Intel-based technology, train end users, support ecosystems, and bring back insights from the field. Since 2009, more than 500 employees have completed over 91 assignments, deploying thousands of Intel devices and training teachers, students and other end-users in 25 countries.