

Intel® Skills for Innovation Framework

Empowering the Next Generation of Innovators








“The capacity to innovate...and new skills like critical thinking, communication and collaboration, are far more important than academic knowledge.”

Tony Wagner,
Senior Research Fellow
Harvard Graduate School of Education

The Fourth Industrial Revolution has integrated digital technology into every aspect of our lives. Workplaces today demand that workers come prepared with new ways of thinking and solving problems.

Future job markets will need more cognitive, social-emotional, and technological skills.¹

Skills		% Change in hours worked by 2030 (US and Western Europe)
	Physical and manual skills	▼ 11%+
	Basic cognitive skills	▼ 14%+
	Higher cognitive skills	▲ 7%+
	Social and emotional skills	▲ 22%+
	Technological skills	▲ 52%+

The Jobs Landscape in 2025²

85 Million Declining Roles Global change by 2025

- 1 Data Entry Clerks
- 2 Administrative & Executive Secretaries
- 3 Accounting, Bookkeeping & Payroll Clerks
- 4 Accountants & Auditors
- 5 Assembly & Factory Workers

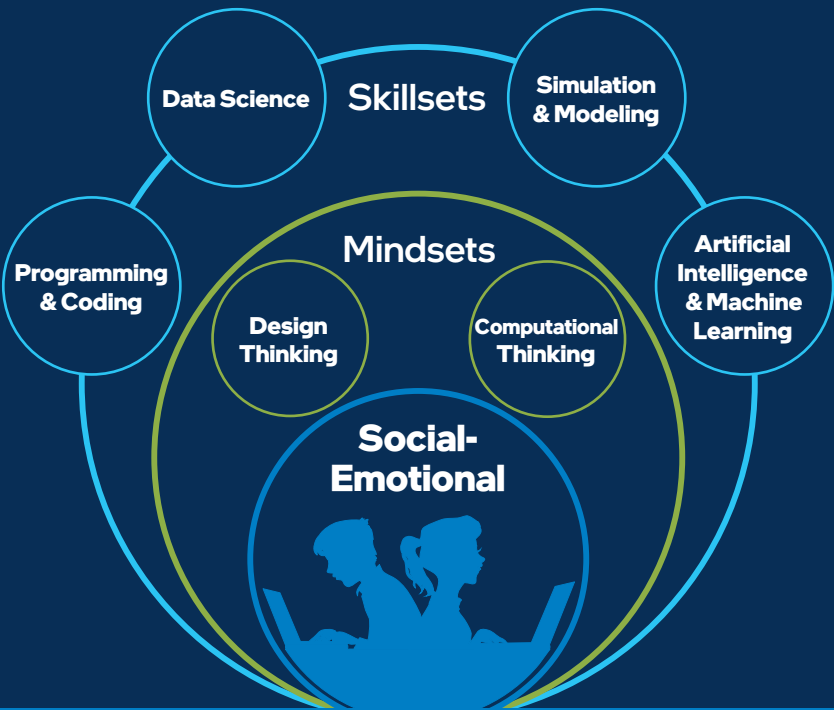
97 Million Emerging Roles Global change by 2025

- 1 Data Analysts & Scientists
- 2 AI & Machine Learning Specialists
- 3 Big Data Specialists
- 4 Digital Marketing & Strategy Specialists
- 5 Process Automation Specialists

Intel® Skills for Innovation





The Intel Skills for Innovation Initiative represents a new approach for education that embraces and fosters skills critical for students’ future success.

Our implementation framework focuses on developing seven essential mindsets and skillsets. It includes a four-step adoption plan, helpful resources, and a suite of programs that can be readily rolled out. The Framework integrates skill-building technology activities into everyday teaching and learning, bringing real-world relevance to curriculum content while equipping students with the skills to flourish in the workplace of the future.



Getting from where you are to where you want to be

The Intel SFI Framework provides technology recommendations and tools to support decision makers and educators as they develop, try, and implement their skills-focused vision. In addition, it supports educators with ready-to-use materials and training to simplify technology integration and enables easy sharing of best practices through the global learning community on the Intel SFI platform.

 Plan Understand new skill requirements, rethink technology's role to foster skill building. Align stakeholders and facilitate creation of action plan. Resource: Intel SFI Planning Toolkit	 Experience Experience technology used for skill building in the actual learning environment and verify viability. Identify best practices for wider adoption. Resource: Intel SFI Starter Pack	 Train Develop educators' competencies to facilitate higher-order skills development in their students. Resource: Intel SFI Professional Development	 Deploy Adopt technology-supported, skills-based learning models across the entire education system. Resource: Intel Technology Solutions from Partner Network
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Are you ready to take the next step? We are. For more information about how to apply the Intel SFI Framework to your educational environment, please visit skillsforinnovation.intel.com

1. Exhibit from “Skill shift: Automation and the future of the workforce”, May 2018, McKinsey Global Institute, www.mckinsey.com.
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2. Saadia Zahidi et al. The Future of Jobs Report 2020, (World Economic Forum, 2020), http://www3.weforum.org/docs/WEF_Future_of_Jobs_2020.pdf
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