



The Technology Skills Landscape

The technology industry is known to be at the forefront of innovation, but with such rapid evolution comes hurdles, and even leading organizations are starting to face critical skills gaps.

A substantial 46% of technology employees fear their skill set will become obsolete in 2024¹. What's more, according to the Digital Leadership Report² as much as 67% of senior technology leaders cite a lack of skills as a reason why their companies are falling behind the pace of change.

To remain competitive through 2024 and beyond, technology organizations need to prioritize skills – understand the skills present in their organizations now and identify the skills that need to be planned for in the future.

The state of the tech industry

Artificial intelligence (AI) is the hot topic of the moment and arguably the fastest evolving area of technology, followed by cloud computing and data analytics. According to the World Economic Forum, executives estimate that 40% of their workforce will need to reskill in the next three years to keep up with artificial intelligence (AI) and automation innovations.3

To mitigate the risk associated with this, the launch of the EU's AI Act4 "aims to provide AI developers and deployers with clear requirements and obligations regarding specific uses of Al. At the same time, the regulation seeks to reduce administrative and financial burdens for business".

In a recent Robert Half survey⁵, 95% of technology

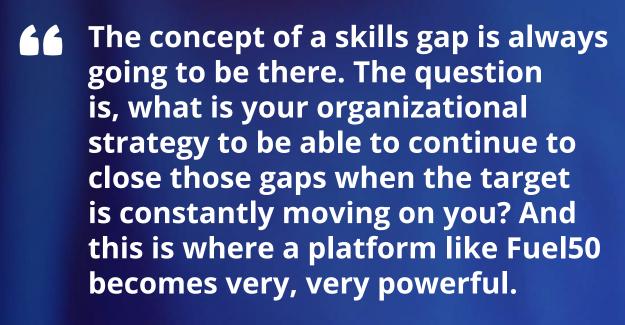
managers say they face challenges finding skilled talent, 69% said they are hiring for new positions, while 29% reported that they are recruiting talent for vacated roles. Of those 69% hiring for new roles, it is anticipated that many of these will be related in some way to AI - be it as specialists, trainers, security and compliance managers, and other areas that haven't yet been developed but will be soon.

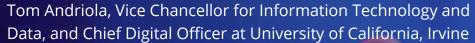
The trend of investing in Al-related skills will likely continue, especially given that global spending on digital transformation is expected to reach \$3.4 trillion within the next three years⁶. For many businesses now, skills prioritization initiatives are no longer about catching up — but getting ahead.



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Researched and validated by our team of Skills Strategy experts, technology organizations must have the following skills to be at the forefront of the industry in 2024.

Top Technology Skills:



Agile Methodologies



Cyber Security Risk Assessment



Information Security Risk Management (ISRM)



Risk Management, Security, and Information Assurance



Software Development Life Cycle (SDLC)



Workflow Automation

Bonus Soft Skills:



Innovation



Problem-Solving



Process Improvement



User and Customer Support (can be either a hard or soft skill)



The top skills explained

| Identifies the information assets that could be affected by a cyberattack and then identifies the risks that could affect those assets. These assets could include hardware, systems, laptops, customer data, and intellectual property. Information Security Risk Management (ISRM) | Agile Methodologies | Understands the various agile methodologies and selects the appropriate methodology / combination of methodologies for the situation. |
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| technology. Identifies, assesses, and treats risks that might affect the confidentiality, integrity, and availability of the organization's assets. Management (ISRM) Management, Security, and Information Assurance Manages risks and protects knowledge, information, and data. Ensures the availability, integrity, authentication, and confidentiality of information and systems. Puts measures in place to manage risks for the protection of information and information systems from unauthorized access, use, disclosure, disruption, modification, and destruction. Software Development Life Cycle (SDLC) Recognizes and follows the steps in common Software Development Life Cycle (SDLC) models. Gains insight of business processes through the data in the Information Technology (IT) systems. Uses these insights to design, execute, and automate manual tasks or processes based on workflow rules. Questions orthodox approaches. Is imaginative and inventive. Produces creative solutions to situations and problems. Generates new ideas. Leverages knowledge, previous experience, and skills to identify the crux of an issue and creates a workable solution to resolve problems. Understands verbal or numerical information and how to make reasoned decisions based on this analysis. Develops and implements improved processes and procedures to | | attack and then identifies the risks that could affect those assets. These assets could include hardware, systems, laptops, customer |
| Ensures the availability, integrity, authentication, and confidentiality of information and systems. Puts measures in place to manage risks for the protection of information and information systems from unauthorized access, use, disclosure, disruption, modification, and destruction. Software Development Life Cycle (SDLC) | | technology. Identifies, assesses, and treats risks that might affect the |
| Software Development Life Cycle (SDLC) models. Gains insight of business processes through the data in the Information Technology (IT) systems. Uses these insights to design, execute, and automate manual tasks or processes based on workflow rules. Innovation | Security, and | Ensures the availability, integrity, authentication, and confidentiality of information and systems. Puts measures in place to manage risks for the protection of information and information systems from unauthorized access, use, disclosure, disruption, modification, |
| Information Technology (IT) systems. Uses these insights to design, execute, and automate manual tasks or processes based on workflow rules. Innovation | • | |
| Process Improvement creative solutions to situations and problems. Generates new ideas. Leverages knowledge, previous experience, and skills to identify the crux of an issue and creates a workable solution to resolve problems. Understands verbal or numerical information and how to make reasoned decisions based on this analysis. Develops and implements improved processes and procedures to | Workflow Automation | Information Technology (IT) systems. Uses these insights to design, execute, and automate manual tasks or processes based on |
| the crux of an issue and creates a workable solution to resolve problems. Understands verbal or numerical information and how to make reasoned decisions based on this analysis. Develops and implements improved processes and procedures to | Innovation | |
| | Problem-Solving | the crux of an issue and creates a workable solution to resolve problems. Understands verbal or numerical information and how to |
| | Process Improvement | |
| User and Customer Support User and Customer Support Communicates effectively with customers, listens to symptom descriptions, analyzes problems, responds effectively, and provides constructive feedback to the client on problem resolution. | User and Customer Support | customers implement and solve problems related to IT. Communicates effectively with customers, listens to symptom descriptions, analyzes problems, responds effectively, and provides |



How leading tech organizations like Smartsheet are prioritizing skills

When surveyed, more than a third (34%) of organizations state they are investing in internal training programs to upskill their workforce.⁷ Software company Smartsheet, is one of them.

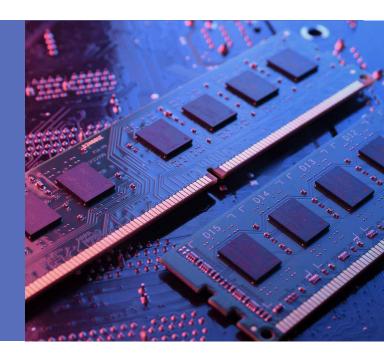
Initially faced with high attrition and low engagement rates, they needed to find a way to make internal opportunities clearly visible to employees so that they could discover future career paths, drive their own development, and take charge of their careers.8

With Fuel50, Smartsheet have transformed their traditional skills taxonomy and gone beyond basic datasets by defining the interconnected relationships between skills, roles, proficiency levels, capabilities, tools, and technologies. Employees are now well-equipped to grow and develop at Smartsheet no matter where they are, which role they are in, or what their goals are; while the organization is simultaneously building a motivated, engaged, and future-proofed workforce.



We really want to provide employees with transparency so they can understand their skill sets, recognize where they may have areas to grow, and have a better understanding of other opportunities they want to take on in the future.

Kaitlyn Warter, Senior Manager Talent Management at Smartsheet



Looking for guidance on becoming a skills-based organization?



If your organization needs to bridge skills gaps, it is essential to embed these top technology skills into your workforce. Fuel50 can help by empowering employees through personalized reskilling and upskilling initiatives designed to close these gaps – a pivotal step in cultivating agile, future-ready workforces capable of embracing change.

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References

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⁸ Fuel50. (2023). *Smartsheet's journey to creating an equitable employee experience.* https://fuel50.com/stories/smartsheet/

⁹ Fuel50. (2023). *How UCI Increased Employee Retention with Fuel50's Talent Marketplace.* https://fuel50.com/stories/uci/

Learn more: fuel50.com

Fuel50 is the AI Talent Marketplace solution that delivers internal talent mobility and workforce reskilling.

With hyper-personalized AI and a deeply embedded commitment to diversity and inclusion, Fuel50 activates your talent. Fuel50's ethical AI matches your people to opportunities in real-time, automatically maps your workforce architecture, and provides deep data insights for predictive talent and workforce planning.

Over 80 organizations around the globe saw immediate impact since deploying Fuel50, with up to 65% increase in lateral movement, 35% increase in internal recruitment, and 60% reduction in employee churn.

Fuel50 powers the workforce of the future.

Learn more: **fuel50.com**

