

REGIONAL INDUSTRY IT SKILL NEEDS ASSESSMENT, 2024

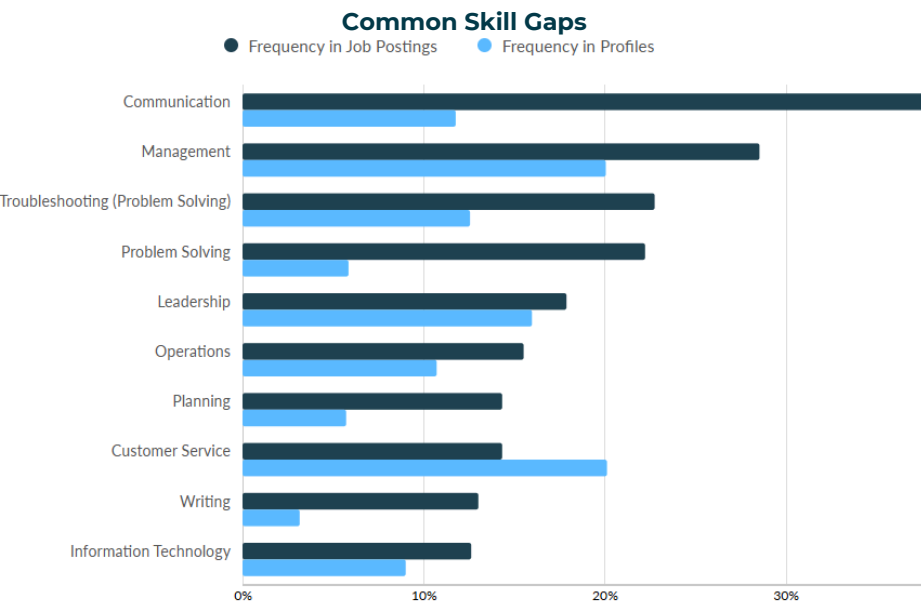
The Information Technology (IT) industry is a vast and dynamic field that encompasses the use of computer systems, software, hardware, and networks to manage, process, and exchange information. Macomb Community College commissioned the Regional Industry Information Technology Skill Needs Assessment to explore the current state of the IT industry in Macomb, Oakland, and Wayne Counties in Michigan. Specifically, this assessment seeks to gather data on the current IT workforce job landscape, identify skill gaps and make recommendations to address these gaps effectively. The findings of this study will be critical for informing workforce development and training initiatives, educational programs, and industry collaboration aimed at strengthening the region's IT workforce.

Emerging In-Demand Occupations

Description	Annual Openings	Median Hourly Earnings	Typical Entry Level Education
Software Developers	1,453	\$50.45	Bachelor's degree
Computer and Information Systems Managers	527	\$67.25	Bachelor's degree
Information Security Analysts	144	\$49.47	Bachelor's degree
Computer Occupations, All Other	265	\$46.48	Bachelor's degree
Computer and Information Research Scientists	13	\$64.37	Master's degree
Computer Systems Analysts	546	\$51.77	Bachelor's degree
Software Quality Assurance Analysts and Testers	103	\$41.23	Bachelor's degree
Web Developers	44	\$41.49	Bachelor's degree
Web and Digital Interface Designers	51	\$38.67	Bachelor's degree
Database Administrators	44	\$45.73	Bachelor's degree
Computer Network Support Specialists	77	\$31.12	Associate's degree
Database Architects	32	\$46.68	Bachelor's degree

Employment and Education Requirements: The IT sector in the region saw an increase of nearly 4,000 workers between 2013-2023, with most jobs requiring a Bachelor's degree, although some positions are available for those with an Associate's degree or some college education.


Skill Gaps and Emerging Skills: Key skills in high demand include Automation, Agile Methodology, Innovation, Critical Thinking, Problem-Solving, and effective use of Artificial Intelligence, with employers placing high emphasis on these skills.



Recommendations and Best Practices

Recommendations include showcasing project portfolios, short-term training, mock interviews, and resume preparation, with a focus on hands-on learning, industry collaboration, apprenticeships, and mentorships.

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