Industry Snapshot

CRICOS: 00122A | RTO: 3046

Information Technology 2024

Data shows that the present and future of industry is driven by technological advances, making 2024 the perfect time to advance your career in IT.

Technology exploration and expansion is only speeding up. To keep up with demand, there are innumerable job prospects for IT professionals in Australia across almost all industries. Businesses continue to seek experts with skills in cyber security, automation and AI.

Key takeaways from 2023

Artificial Intelligence (AI) concerns have turned to need for expertise

While the current use of AI technology still has concerns relating to ethical use and legal implications, industry experts and leaders are finding an undoubtable value to AI integration[1].

Research by Deloitte has shown that despite increasing adoption across many industries, a mistrust of AI tech is present. Tech leaders have suggested businesses upskill their organisations by hiring or training employees to be experts in the application of AI. Moreover, further advice suggests IT professionals with the know-how should gain the skills to "develop a consistent framework to evolve AI into a trusted component"[1].

Demand for skilled IT professionals has only increased[2]

There is no doubt the IT industry has boomed in recent years. In 2023 the Australian Minister for Industry and Science, the Hon Ed Husic, reported that the domestic IT workforce grew by 8% in 12 months. Moreover, that the total number of tech-related jobs is currently on track to reach 1.2 million across Australia by 20302.

"With a steady increase to nearly 935,000 tech workers this year, compared to 865,000 last year, we are well on track to deliver 1.2 million jobs by 2030," said Hon Ed Husic.

"If the tech workforce were a [single] industry, it would be the seventh largest employer in Australia."

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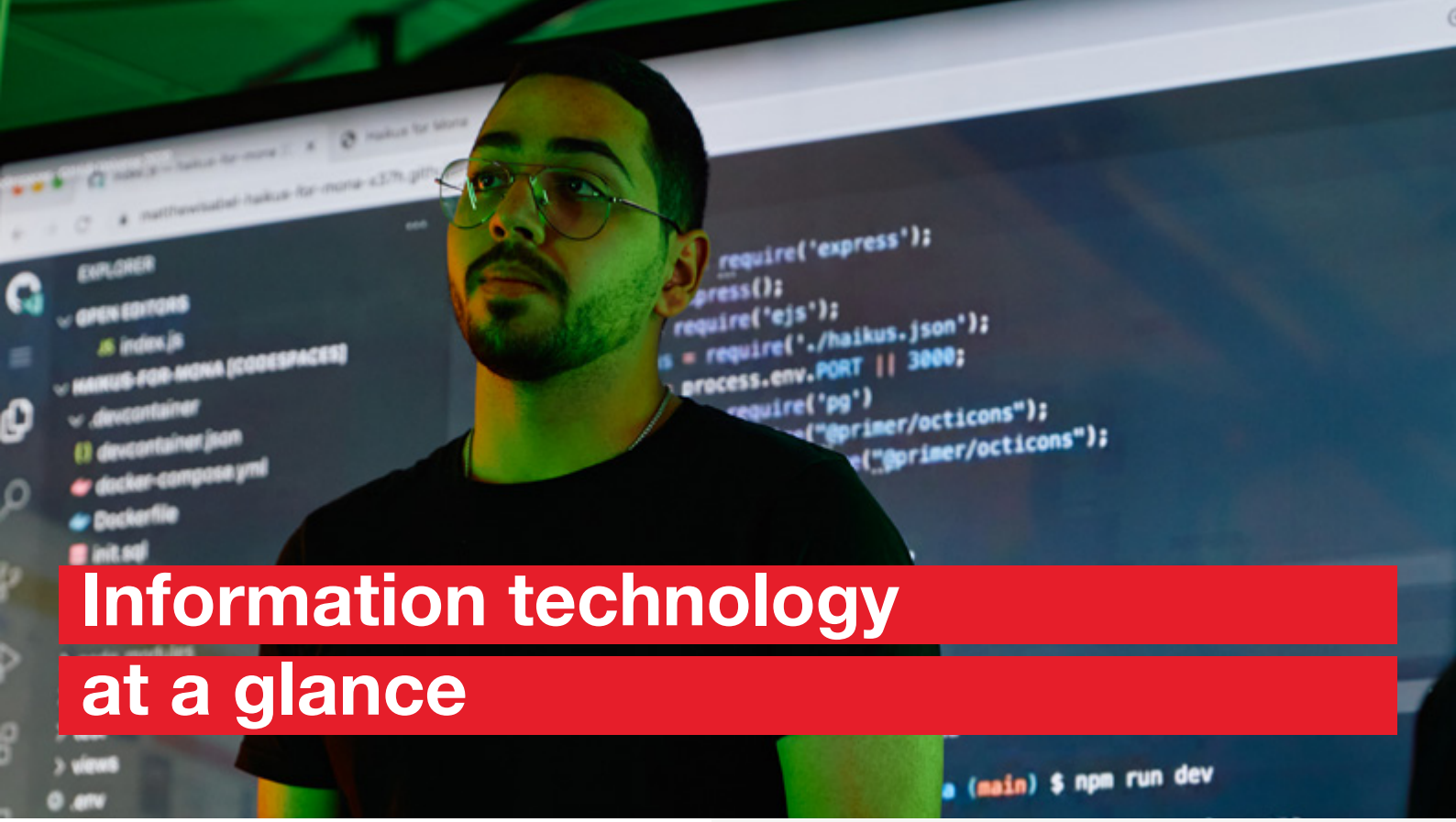
What's next...



Information technology at a glance

Top four growing IT fields in 2024[3]

- Cyber security
- Artificial Intelligence (AI)
- Blockchain
- Cloud computing

Top rated technical skills for a tech-related role[4]

- Technical writing
- Social media management
- Coding
- Network configuration
- Hardware deployment
- Operating system knowledge
- Database management

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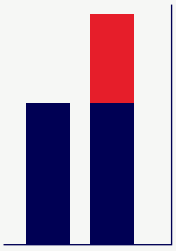
IT professionals can hold a variety of well-paying positions...

Cyber Security Analyst[11]	**105K per year**
Data Engineer[12]	**130K per year**
IT Project Manager[13]	**150K per year**

156,000
new technology workers

will be needed to keep up with ever-expanding tech innovation and industry across Australia.[8]



Cyber security is a fast-growing role across Australia...

In October 2023 there were at least **711** job opportunities for Cyber Security Analysts in Australia, and the number of roles is expected to grow by at least **38%** in the next five years[5].

What's next...

What's next...

The sector-wide need for cloud management will continue to grow

Cloud services and their integration across industries is not a new trend, but the organisation and management of layered, multi-cloud services is growing in its complexity and requires new professionals to simplify the systems.

Sectors across Australia, such as emergency services, banking and energy providers, are investing in professionals with well-rounded expertise who can assist them in managing metacloud systems to reduce complexities, eliminate security risks and address redundancy problems created by maintaining multiple cloud instances[1].

Ready to future-proof your career by gaining the digital skills employers are looking for? No matter your technical background, RMIT's Master of Information Technology will help you gain the robust proficiency and theoretical base to work as a skilled IT consultant, cloud architect, mobile application developer, web developer or system analyst in a diverse range of industries.

Click here to learn more about the Master of Information Technology

Australia will be strengthening its global cybersecurity with a new strategy

In early 2023 the Australian Government announced the development of the 2023-2030 Australia Cybersecurity Strategy, which focuses on several key areas, one of which is improving the international cybersecurity capacity and strength of Australia[9].

As part of this increase comes the need for more trained cyber security professionals within the business sector but also working in government roles. "Our people are the foundation of cyber security capability – education, skills, talent attraction and continuing professional development will be key to Australia's cyber resilience," said Cybersecurity Advisory Board member, Mel Hupfeld[9].

Launch your career further into this high-growth sector with RMIT's Master of Cyber Security. Through state-of-the-art cyber security software and work-simulated exercises, as well as cyber security internships with industry organisations, you'll gain hands-on experience that will help you advance your specialist role.

Click here to learn more about the Master of Cyber Security

What's next...

The exciting adoption of AI for healthcare, government and education

While much of the discussion around AI innovations has related to music, digital art and other creative industries, other sectors will also experience changes as a result of AI tech. For example, healthcare organisations that have started utilising AI tech to enhance systems that handle hospital network analysis and pharmaceutical development[1].

There are several other industries and organisations that have shown signs of being early adopters as well. Specifically, sectors that rely on data-heavy networks are beginning to integrate AI tech, such as federal government, education and the justice system. Deloitte projects that as AI continues to be adopted, experts who can champion data transparency and algorithmic explainability will be highly valued[1].

Bring key elements of data, computer science and programming together to become an expert in AI through RMIT's Master of Artificial Intelligence. As one of the few providers of this degree in Australia, at RMIT you'll gain the knowledge and skills to advance your career as an AI Engineer, Machine Learning Engineer, Business Intelligence Developer, Research Scientist or Web Analyst.

Click here to learn more about the Master of Artificial Intelligence

Solving real world problems with data and information systems

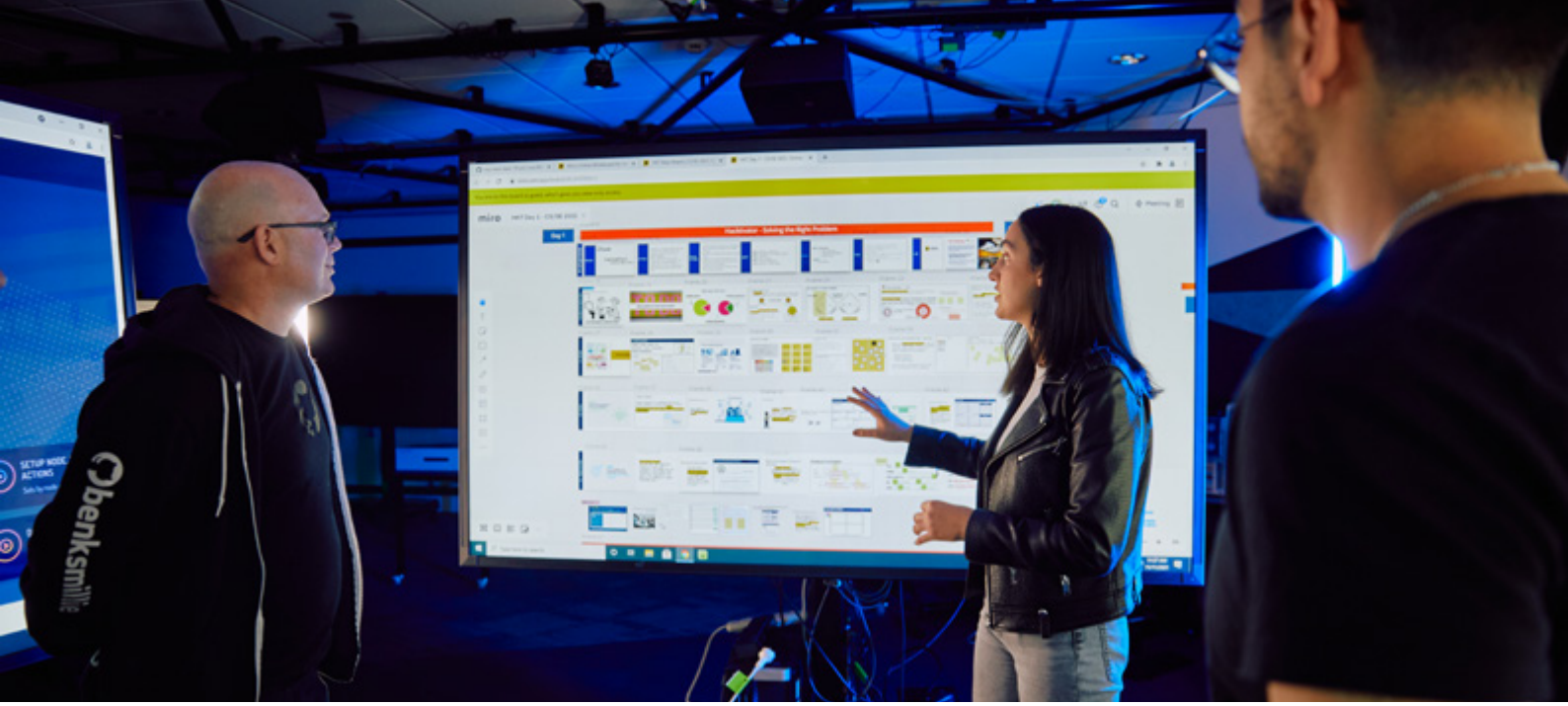
Data science may seem like a niche field, but there is substantial interest in professionals with a strong understanding of data, metadata, analytical systems and information technology.

The field continues to grow with SEEK projecting a 11% increase in data scientist positions in the next 5 years[10], as businesses continue to consider the valuable insights that data specialists can provide them.

"If you can think laterally and solve problems, and evidence-based decision making is your thing, study data science," says James Harland, Associate Dean of Student Experience and Professor in Computational Logic at RMIT. "Data science is an unwritten book, it's flexible and it's growing in the future."

We live in a data-driven world that's generating huge volumes of information at ever-increasing rates via social media, financial transactions, transportation, and scientific discovery. Consequently, having a strong understanding of data can be hugely beneficial for your career, especially when you can create and manage data systems across any industry. Learning data analytics skills and gaining practical expertise means that graduates of the Master of Data Science have the potential to lead the innovation of tomorrow.

Click here to learn more about the Master of Data Science



Sources

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[2] *Australian Government, Minister for Industry and Science. 'Number of Aussie tech workers on the rise'. 30 May 2023.*

[3] *SAGipl Centralized Blockchain Solution. 'Top 11 Fast-Growing Technologies to Learn for Success in 2023'. Accessed 17 October 2023.*

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[5] *Seek 'How to become a Cyber Security Analyst'. Accessed 17 October 2023.*

[6] *Seek 'How to become a Data Engineer'. Accessed 17 October 2023.*

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[8] *RMIT Online 'Ready, set, upskill: Effective training for the jobs of tomorrow'. Report 2022.*

[9] *Australian Government, Minster for Home Affairs. 'Expert Advisory Board appointed as development of new Cyber Security Strategy begins.' 8 December 2022.*

[10] *Seek. 'How to become a Data Scientist'. Accessed 17 October 2023.*

Correct as of November 2023

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What's next...