



Arts, **C**ommunications, **F**inance **I**ndustries and **P**roperty **S**ervices Ltd

Careers in Information and Communications Technology

October 2023

Industry Insights

- Over the next five years, Australia will need **50,000 new IT professionals per year**. With an **estimated 85,000 digital workforce shortages** and digital literacy across NSW by 2030.
- In 2019, there were slightly **less than 7,000 domestic IT graduates nationally**.
- Most important !!!!
- Digital Literacy Skills **are transferable** across multiple career paths.

Digital Skills Organisations (now a Jobs & Skills Council)

Final report June 2023

- There has been a **12% increase in demand** for digital skills across the economy since 2016
- **47% growth is projected** for the digital expert workforce by 2026
- Creating a **370,000 digital worker shortfall** projected for Australia by 2026

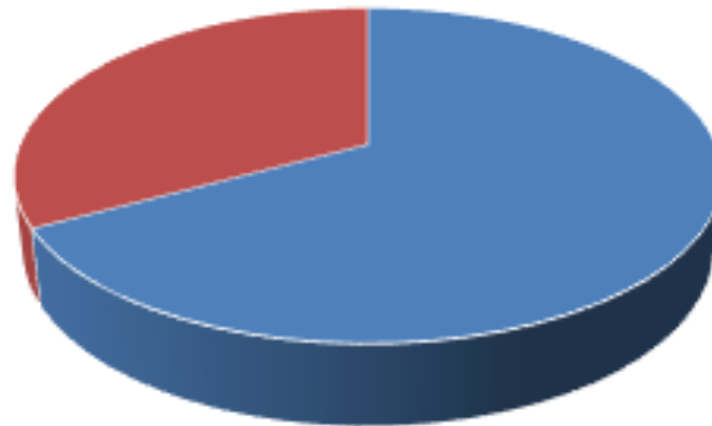
What's needed ??

- Effective schools' programs such [DigiSkills Academy](#) trial (through Year 13)
- Streamlined and transparent pathways are critical for prospective learners to become skilled workers

Gender profile of ICT students in NSW

All VET ICT Course completions in NSW	Gender	2018	2019	2020	2021	2022
	Males	3,030	2,930	2,025	2,555	1,340
	Females	1,440	1,805	1,000	1,115	455

Males and Females 2018 to 2022



Traineeship comparison

NSW Smart and Skilled

Jan - Feb 2021 to 2022

Top 6 ICT Traineeships	2020	2021	2022	2023
Telecommunications Technology Certificate III	405	327	553	32
Information Technology Certificate III	17	77	167	30
Information Technology Certificate IV	41	110	163	11
Telecommunications - Engineering Technology Certificate IV	27	50	93	1
Information Technology - (Networking) Certificate IV		1	34	
Information Technology - Cyber Security	3	9	12	1
Total ICT Traineeship Approvals 2020 to 2023	628	648	1055	83
ICT Traineeship Approvals Jan & Feb x Year	97	84	171	83

School-Based Trainees	Female		Male		
	2021	2022	2021	2022	2023
Information Technology - Applied Digital Technologies Certificate II					1
Information Technology - Information, Digital Media and Technology Certificate III	1		10		
Information Technology Certificate III		1	2	7	1

Careers in ICT

Top 10 IT Careers in Demand – [According to Flexisource IT](#) in Oct 2022

1. Data Analyst and Scientists – \$107k to \$134k/yr
2. AI & machine learning specialist – \$124k to \$195k /yr
3. Big data Specialist – \$122k to \$181k/yr
4. Digital Marketing and Strategy Specialist - \$87k/yr to \$108k /yr
5. Process Automation Specialist - \$121k to \$266k/yr
6. Business development specialist - \$85k / yr to \$130k / yr
7. Digital Transformation specialist - \$104k / yr to \$167k / yr
8. Information systems security - \$88k / yr to \$92k / yr (though
Cyber Security specialist - \$112k / yr to \$162k / yr)
9. Software and Applications Developer - \$94k / yr to \$247k /yr
10. Internet of things specialist - \$132k / yr to \$155k / yr.

Salary advice from <https://au.talent.com/salary?>

Useful Resources

- **Skills One - Digital Skills Videos**

URL: <https://www.skillsone.com.au/category/digital-skills/>

- **Launch Your Career – Cyber Security**

[Video](#) and [Teachers Guide](#) + [Dart Learning Resources](#)

- **ACFIPS Industry Training Advisory Body – [Flyers](#)** (scroll to bottom of page)

So where are the jobs?

1455 Information and
technology listed for all of
Sydney in previous 7 days

Taken 22/03/2023

Compared to

1896 ICT Jobs listed for all of
Sydney in the previous 7 days

Taken
02/03/2022

In the week preceding 22nd March 2023 there were:

- 1 Junior programmer jobs (20 - 2/3/22)
- 71 computer programmers jobs (98 - 2/3/22)
- 143 Network Security jobs (145 - 2/3/22)
- 108 Telecommunications technician (45 - 2/3/22)
- 46 Telecommunications engineers jobs (47 - 2/3/22)
- 1596 Data analyst jobs – 62 junior analyst roles (771 - 2/3/22)
- 2551 Data Entry jobs (65 - 2/3/22)
- 168 Cyber Security Jobs (135 - 2/3/22)