



THE UNIVERSITY OF
MELBOURNE

Melbourne School
of Engineering



INFORMATION
TECHNOLOGY
AND
INFORMATION
SYSTEMS
CAREER
PATHWAYS

➤ For more information, visit
eng.unimelb.edu.au

IT ENGINEERING AT MELBOURNE

Information technology and information systems professionals apply their expertise to solve real world problems across industries. They design and support systems, improve business processes, develop mobile and broadband applications, analyse and manipulate big data, design mobile location-based solutions and much more.

The University of Melbourne is Australia's leading educational institution for IT*, and ranked No.1 in Australia and No. 14 in the world for Computer Science and Information Systems.#

Whether you are interested in a professional qualification, a career change, expanding your technical skills or pursuing a new interest, the University of Melbourne has a range of world class IT programs to meet your needs.

IT at Melbourne Our Master of Information Technology and Master of Information Systems are the University's premier courses for students who wish to pursue careers as technically focused IT specialists or digital business leaders. Both courses are accredited by the Australian Computer Society.



Develop the skills to succeed in industry

Master of Information Technology (Computing) student Jun Jen Chen enjoys the practical real-world assignments that he gets to work on in his course. On a recent internship with Infosys in India, Jun Jen noted that he was able to use skills learnt at university on his work projects.

“It is fulfilling to know that not only do I enjoy what I’m studying, it is also what I would be doing in an industry setting.” Jun Jen says that the assignment work is challenging and rewarding.

“In one of my assignments, I made a social media platform similar to Instagram. Knowing that I can make something that is comparable with industry standards is very satisfying.”

Jun Jen Chen
MIT (Computing)

Specialisations

The Master of Information Technology is a technically focused degree for creative students interested in cutting edge technology. As a graduate, you will be able to develop and implement software systems in a wide variety of organisations. You can design and create the latest in mobile and broadband apps, or you can find senior IT roles in growth areas such as cloud computing, eHealth and spatial information technology.

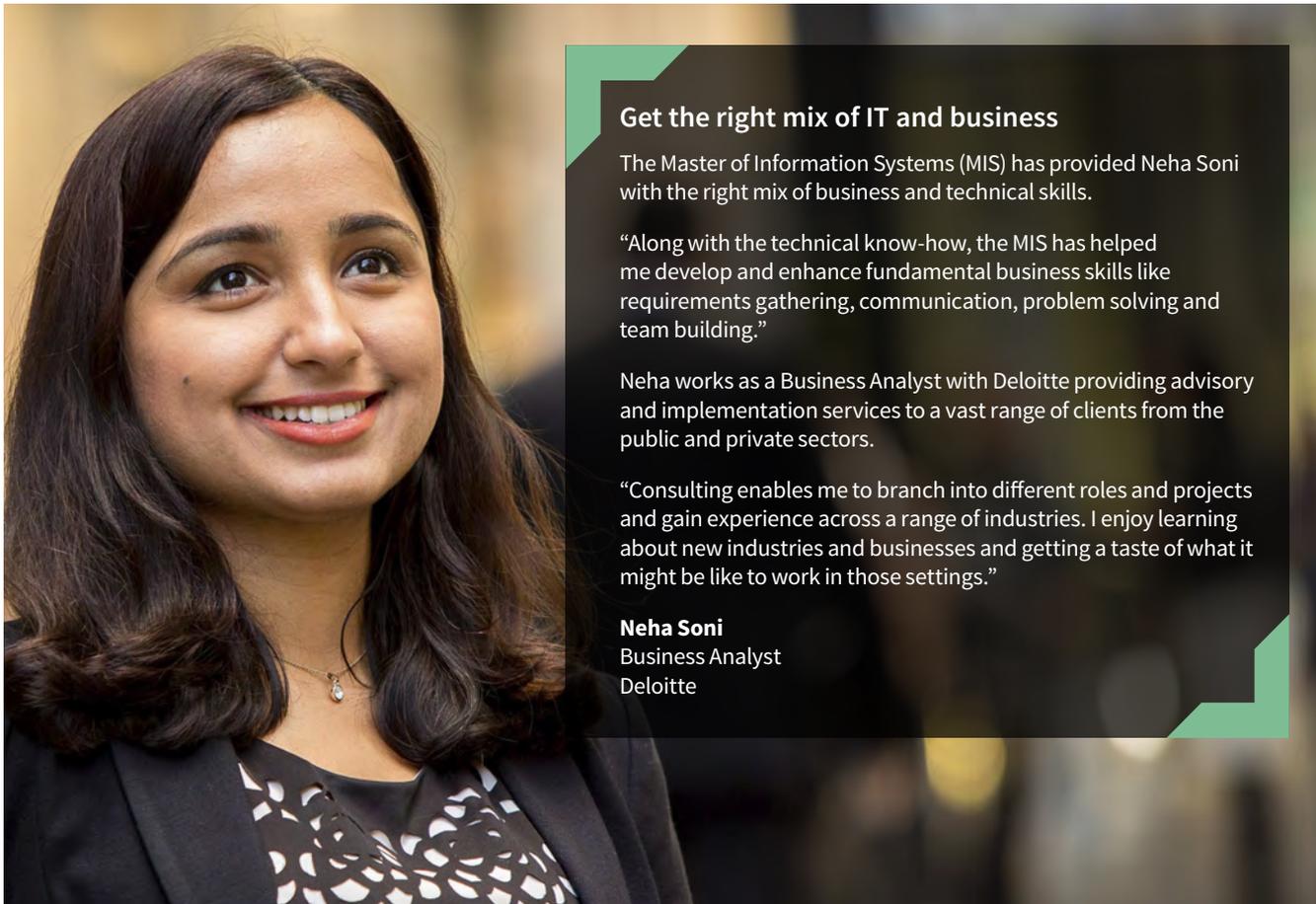
As a Master of Information Systems graduate, your focus will be on systems management. You will be able to work as a practitioner, manager or consultant in digital business, supporting, managing and changing business processes through your knowledge of information and communications technology and information systems.

Job Outlook

According to the [Australian Government's Job Outlook website](#)*, employment for ICT professionals is strong, with continued growth anticipated over coming years:

- » Employment for ICT Business and Systems Analysts is expected to be above average to November 2019.
- » ICT Business and Systems Analysts have a high proportion of full-time jobs (94.8 per cent) and earn high salaries.
- » Employment for Computer Network Professionals, Software and Applications Programmers, Database & Systems Administrators & ICT Security is expected.

*QS World University Rankings by Subject 2017. #QS World University Rankings by Subject 2017. *The Data on Job Outlook is updated on a yearly basis and is compiled from national statistics which may not reflect either regional variations or more recent changes in employment conditions.



Get the right mix of IT and business

The Master of Information Systems (MIS) has provided Neha Soni with the right mix of business and technical skills.

“Along with the technical know-how, the MIS has helped me develop and enhance fundamental business skills like requirements gathering, communication, problem solving and team building.”

Neha works as a Business Analyst with Deloitte providing advisory and implementation services to a vast range of clients from the public and private sectors.

“Consulting enables me to branch into different roles and projects and gain experience across a range of industries. I enjoy learning about new industries and businesses and getting a taste of what it might be like to work in those settings.”

Neha Soni
Business Analyst
Deloitte

Sectors & Employers

| IT AND IS SECTORS | | EXAMPLES OF EMPLOYERS | |
|-------------------------|-------------------------------------|---------------------------------------|------------|
| Business | Media and Social Media | Accenture | Google |
| Consulting | Technology Research and Development | Australian Bureau of Statistics (ABS) | IBM |
| Financial Services | Telecommunications | Deloitte | Microsoft |
| Games and Entertainment | | Department of Communications | Red Energy |
| Government | | Ericsson Australia | |
| Health | | | |

Career Progression

| GRADUATE | 3-5 YEARS EXPERIENCE | 10 YEARS |
|--|--|--|
| App Developer – IOS/Android/Phone | Category Manager – IT Infrastructure | Business Analyst – GIS Solution Design |
| Database Developer | Coordinator – Spatial Information Systems | Director of Information Technology |
| Geographic Information Systems (GIS) Officer | Information Systems Consultant | GIS Project Manager |
| Graduate Information Systems Officer | Information Systems & Web Developer | Information Systems Manager |
| Information Technology Officer | Information Technology Systems Specialist | Manager Business Information Systems |
| Network Programmer | Infrastructure Specialist – Information Technology | Manager Gaming Information Systems |
| Software Developer | Spatial Information Systems Officer | Manager Information Technology |
| Tech startup entrepreneur | Systems Integrator | Principal Consultant – IT |
| Web Developer | Technical Information Systems Consultant | Strategy Director – IT |
| | | Technology Director – IT |



Alternative Careers

An engineering degree at the University of Melbourne gives you a solid technical and design foundation combined with strong analytical, problem solving and communication skills valued across a range of industries. Other areas our graduates have moved into include:

- » Management consulting
- » Finance, economics and banking
- » Business analysis
- » Project management
- » Technical sales, marketing and communications
- » Intellectual property management
- » Technical writing
- » Government and policy

Careers in Research

If you are passionate about a field of electrical engineering and would like to advance your research skills, enrolling in a graduate research degree could be a great option for you. Graduate research enhances your ability to problem solve, think autonomously and creatively, and analyse. Careers in research are diverse and may include:

- » academic positions at universities;
- » policy-making or research positions at public sector organisations;
- » private sector research and development projects;
- » self-employed consulting positions on technical or policy issues in your area of expertise.

Employability Services and Industry Links

Students undertaking our programs have access to a range of employability services, and benefit from a curriculum that offers excellent opportunities to connect with industry through:

- » an elective internship subject
- » student projects partnered with industry
- » guest lectures led by industry leaders and experts
- » site visits hosted by key organisations
- » industry networking events
- » career panels featuring industry representatives
- » career question drop-in service
- » an online jobs and internships portal



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