



THE UNIVERSITY OF
NOTRE DAME
A U S T R A L I A

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Computer Science students to change the world

The University of Notre Dame Australia is launching a cutting-edge computer science program that gives students the opportunity to become experts in artificial intelligence, cyber security and data science.

As digital technologies continue to evolve at an extraordinary pace, transforming the way we live and work, Notre Dame is heavily investing in a program that responds to industry demand.

The new Bachelor of Computer Science program will give students fundamental computer science knowledge and skills as well as specific expertise in key areas.

Cyber security will cover topics such as ethical hacking and cybercrime; artificial intelligence will look at machine learning and language manipulation; and data science will explore data engineering and analytics.

The unique course will produce the next generation of software engineers, data analysts, cyber security specialists, machine learning researchers and technology entrepreneurs.

Students will have access to state-of-the-art computer science labs equipped with the latest tools and technologies, including high-performance computers, virtual reality tools and humanoid robots.

Notre Dame's Head of Computer Science, Professor Tanveer Zia, said the course would take students well beyond IT and information systems, providing a platform for innovation by encouraging them to rethink and redesign technology, rather than reusing it.

"Computer science has become a very mature discipline and it's reached the stage of innovation and creation," Professor Zia said.

"We have carefully crafted three specialisations in response to demand from industry and the computer science market. Right now, these are the skills that are needed and that are contributing to innovation.

"Our graduates need to learn skills such as how to apply artificial intelligence and machine learning in health sciences, or how to make good use of the data produced by autonomous machines."

Notre Dame has a long-held reputation for producing exceptional medical, nursing and allied health professionals – a strength Professor Zia believes will be bolstered by the new computer science program.

“By merging our existing strengths in medicine and health with computer science, we can solve some of the biggest problems being faced by our community and the wider world,” he said.

“This could involve working with medicine and health professionals to harness the high-processing power of computer technology in diagnosis, analysis of large datasets of patients records, or exploring the impact of the excessive use of technology and technostress on our lives, opening up a world of exciting possibilities.”

The three-year Bachelor of Computer Science program launches in Sydney in July 2024 and in Fremantle in February 2025. A Master of Computer Science will also be launched next year.

Students will get on-the-job training and mentorship from experts in the field, preparing them for the workforce and allowing them to build their professional networks while studying.

For more information on the course, click [here](#).

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