Our Master of Software Development is open to anyone with a Bachelor's degree. This conversion programme has been designed for people from non-tech backgrounds, who may have studied something completely different or want to change careers.

MASTER OF SOFTWARE DEVELOPMENT

Want to code web, mobile or software applications?

Our Master of Software Development (MSwDev), delivered by Victoria University of Wellington's School of Engineering and Computer Science, is an intensive programme designed for people who don't have a lot of prior software development knowledge. It'll provide you with solid foundations to springboard into the industry. This means you can upskill or reskill without having to start from scratch.

The Wellington ICT Graduate School delivers relevant and practical programmes with project and team based learning to fill the growing technology industry's needs. Our programmes are designed to build on students' existing talents and skills, providing hands-on experience and real-world projects to prepare them for jobs in the ICT industry.

We create direct pathways from education into employment whilst building connections between tertiary education providers and high-tech firms. Wellington ICT Graduate School has relationships with a number of leading companies in the ICT sector, our programmes have been specifically created with industry involvement and are reviewed by industry regularly. Students will have the opportunity to engage with industry and industry leaders through guest lectures, projects, mentoring, and business networking events.

Past MSwDev students have secured jobs at ANZ, Trade Me, Avenir, Datacom, Catalyst IT, Signify, Spark, Contact Energy, Deloitte, GNS, and more.

"Everyone wants you to succeed, our professors collaborate with industry professionals to create courses that make us job ready."
- Sarah, MSwDev Student 2018-19

wellingtonict.ac.nz

WELLINGTON ICT GRADUATE SCHOOL

VICTORIA UNIVERSITY OF WELLINGTON
TE HERENGA WAKA

MASTER OF SOFTWARE DEVELOPMENT

Learn core programming skills and concepts from our respected lecturers before applying them in real-world projects where you'll typically be placed in paid internships where you work with local businesses to build software-based solutions.

PROGRAMME STRUCTURE

Our Master of Software Development (MSwDev) is a full-time, 180-point Master's programme. It is expected that students will complete the full MSwDev within 12 months, over three consecutive trimesters of study.

WHO SHOULD APPLY?

Our Master of Software Development is open to anyone with a Bachelor's degree. The programme has been designed for graduates from non-information technology disciplines, who want to work in software development.

Recent graduates, as well as experienced candidates who want to broaden their career opportunities, are welcome.

CAREERS IN SOFTWARE DEVELOPMENT

The ICT industry is fast-growing and offers a wide-range of exciting and challenging employment opportunities. Wellington has a significant digital, film, and gaming industry as well as a strong start-up culture, producing over a quarter of all NZ's ICT related GDP. This makes Wellington the capital of ICT in NZ.

Students can expect to gain skills in programming and software development which will enable them to develop software-based solutions for a range of industries. Graduates will enter the industry with a combination of highly sought after skills and technical knowledge as well as communication and project management skills. This will allow them to build a successful career in IT that aligns with your other interests and passions.

All applicants for the Master of Software Development should have:

· completed a Bachelor's degree with good grades; and
· been accepted by the Head of School of Engineering and Computer Science.

It is preferred that applicants have an aptitude for or basic level of experience (e.g. learned some in high school or while at university, followed an online course, or done some hobby coding) with programming. This is so you know the programme is for you since it is intensive.

Note: If you already have a qualification in computer science (or a similar subject) it is unlikely you will be accepted into the programme because you will likely have already learned the core concepts that will be taught.

PROGRAMME OUTLINE

SWEN501 *Professional Programming Skills* (6 Weeks) Learn about both core and complex programming concepts and techniques. Topics include collection data structures, inheritance and object orientation, fundamental algorithms and data structures, exceptions, testing, version control, and security, networking, and databases. We teach programming in Java focusing on the core principles so that other languages will become easy to learn.

SWEN502 *Software Development Studio 1* (10 Weeks) Builds upon the skills learned in SWEN501 and introduces methods for development in teams, including professional practice and communication skills. Covers a range of software development skills, technical topics, and software engineering concepts. Topics include networking, cybersecurity, and human-computer interaction (HCI).

SWEN504 *Software Development Studio 2* (10 Weeks) Learn advanced technical concepts and techniques, professional practices, and project planning. Topics such as web development, testing, mobile apps, and AI will be covered. The main focus of the course is on agile development methods where the students learn from real-life industrial problems.

SWEN589 *Industry Research and Development Project* (12 Weeks) Involves a significant project, typically undertaken as a paid internship, where the student is placed in a local ICT business. Alternatively, in certain cases, this could be an industry-sourced (or industry-related) project done within the school. The project involves supervision by an academic as well as the industry employer, and will involve formal and informal reporting and presentations.

FURTHER INFORMATION

For more information about our Master of Software Development, please contact Wellington ICT Graduate School:

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P.   0800 935 542 (0800 WELLICT)
W. wellingtonict.ac.nz

The Wellington ICT Graduate School is a joint initiative between:

VICTORIA UNIVERSITY OF WELLINGTON — TE HERENGA WAKA

Whitireia NEW ZEALAND

WelTec — Te Whare Wānanga o te Awakairangi