Bachelor of Software Engineering

With great communication skills, you will become the managerial interface between a business and its software system. You’ll learn to design, code, test and manage large and complex software systems.

Working on complex software development environments, operating systems, communications, web software, databases and varied applications, you will undertake studies in all facets of the software engineering process.

Software engineering focuses on the software development life cycle, but goes beyond programming to assess and meet customer needs, and design and test software.

Developing software solutions often involves assembling extensive amounts of code into working applications, as well as updating and fixing problems in existing software.

This program is particularly suited to students who:
- want to develop large-scale software
- enjoy working as part of a team
- want to create highly efficient products and systems
- enjoy maths and systems design combined with computer science.

Industry connections
A year-long internship during your third year takes you out into a real-world working environment where you will finesse the work-ready skills you need to be an effective software engineer.

The internship year will provide you with an opportunity to build on and apply your learning within a work environment before returning for the final year.

You will receive assistance with finding a placement and may be eligible for financial support.

Career outlook
As everyday life becomes more dependent on computers and computer systems, the need for highly skilled software engineers grows. There are almost limitless opportunities for qualified graduates.

You may gain employment as a software developer, tester, software architect or designer. There are also team leader, project manager and executive-level positions in software development projects.

RMIT graduates have gone on to work at a range of organisations including:
- Telstra
- IBM
- ANZ

International opportunities
RMIT partners with over 150 organisations around the world to provide you with with global work and study opportunities. You could spend a semester studying abroad, take part in a study tour or complete an international internship

Professional recognition
This program is accredited at the professional level by the Australian Computer Society (ACS). ACS has reciprocal membership agreements worldwide. ACS Certified Professional status gives you global recognition.

rmit.edu.au/programs/bp096
Program structure

You will learn to develop and manage large, quality-measured software systems, studying analysis and design, coding, testing, deployment, project management and other critical areas.

You’ll develop an understanding of software quality and reliability through modern methodology.

The industry placement in the third year provides valuable practical experience in a work setting. This industry experience is then integrated within your studies when you return for your fourth and final year.

Software engineering elective examples:
- Advanced Topics in Software Engineering
- Software Requirements Engineering
- Systems Architecture
- Usability Engineering
- Security Testing
- Cloud Computing
- Programming IoT

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<td>1</td>
<td>User-centred Design</td>
<td>Programming Techniques</td>
<td>Intro to Computer Systems and Platform Technologies</td>
<td>Discrete Structures in Computing</td>
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<td>2</td>
<td>Algorithms and Analysis</td>
<td>Software Engineering Fundamentals</td>
<td>Advanced Programming Techniques</td>
<td>Database Concepts</td>
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<td>3</td>
<td>Approved Industry Experience 1</td>
<td>Software Engineering Project A</td>
<td>Software Engineering: Principles and Practice 1</td>
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<td>Approved Industry Experience 2</td>
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<td>Object-oriented Software Design</td>
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<td>Software Engineering Project B</td>
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Please note: This is an example of the program structure. Courses may change and may not be available each semester.