Master of Technology

Federation University

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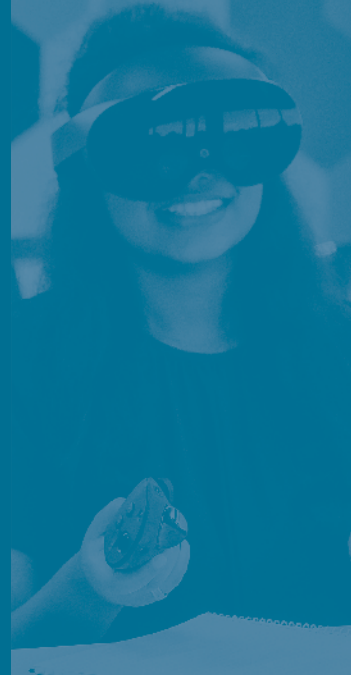
Upgrade your IT expertise and deploy **cutting-edge technology** to support global industries

Welcome to Federation University Australia

We're thrilled that you've taken the first step towards completing a degree with Federation University. Whatever your passion or career goals, Federation has everything you need to make your mark in the world.

Reasons to choose Federation University

TOP 200	Young Universities **in the World**[1]
TOP 300	Universities worldwide for **Sustainable Development Goals**[2]
TOP 400	Universities worldwide for **Engineering and Technology**[3]
#1	University in Victoria for Skills Development for **Computing and Information Systems**[4]
5/5 RATING	**Excellence in Research**[5] Federation was rated **at or above world standard** in 80% of our submitted Fields of Research
	Affordable tuition fees and **great scholarships** available
	High quality, personalised teaching and dedicated **international student support**
	Industry integrated learning with opportunities for **real life projects** with industry leaders

1 Times Higher Education (THE) Young University Rankings 2023
2 Times Higher Education (THE) World University Impact Rankings 2023
3 Times Higher Education (THE) World University Rankings by Subject 2023
4 The Good Universities Guide 2024 (Postgraduate)
5 Excellence in Research Australia, 2018 National Report

Welcome to the Institute of Innovation, Science and Sustainability

Businesses are facing unprecedented challenges posed by digital disruption, combined with transformative opportunities through the rapid adoption of new technologies. Whether you're looking to enter the corporate world, nurture your entrepreneurial spirit or secure a promotion — there has never been a more exciting time to start a career in information technology.

Federation University's Institute of Innovation, Science and Sustainability (IISS) delivers contemporary information technology degrees, designed to meet the needs of industry now and long into the future. Incorporating teachings from our expert academics and industry leaders, you will develop your skills in the classroom and put them into practice through real-world projects, simulations and placements. We ensure that every Bachelor of Information Technology graduate is equipped with confidence, knowledge, skills and experience to succeed in their career. That's why Federation University is internationally recognised by employers for producing highly desirable graduates.

Women in STEMM

Federation University is proud of the achievements and contributions of its female researchers, students and staff, and remains committed to supporting gender diversity and equity within the university.

We take a holistic approach to ensuring women have equal access to study, work and pursue research with us at Federation.

We are proudly an Athena SWAN member – the only globally recognised framework for gender equity, diversity and inclusion. In 2020, we achieved SAGE Athena SWAN Bronze Accreditation by promoting gender equity and diversity in Science, Technology, Engineering, Mathematics and Medicine (STEMM).
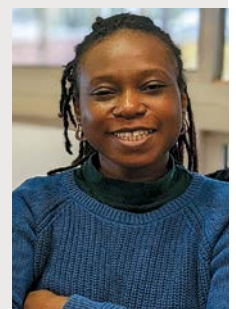
Visit our website to learn more about this accreditation. ↖
federation.edu.au/research/women-in-research/sage-athena-swan

Dr Taiwo Oseni
Doctor of Philosophy
(Information Technology)

Dr Taiwo Oseni is an early career Information Systems Lecturer and Researcher at Federation University.

❝ *My teaching and research interests are in the post-implementation modifications to Enterprise Systems with the aim to achieve effective utilisation of organisational technology. From an Information Systems perspective, I've also recently started investigating the effectiveness of strategic cybersecurity systems that are used in protecting critical information and infrastructure.*

In my current role as a lecturer, my career purpose is to enhance lives through knowledge creation, acquisition, and dissemination. As a young woman in STEM, I take active interest in encouraging young girls into STEM through mentorship, school visits, social events, and industry-sponsored camps for girls. ❞

What to expect

Our Master of Technology will see you:

- gain a **deep knowledge of interdisciplinary areas of IT**, including cloud computing, programming, real-time analytics, data warehousing and software testing

- **graduate with a competitive advantage**, when searching for employment, by using a wide range of cutting-edge technologies and obtaining certificates from vendors like SAP, IBM, SAS and Teradata

- apply and understand IT theory and practice, embedded in **diverse industries** such as health, education, defence, government and business

- dedicate a semester to completing an IT masters project, to gain **work-ready skills**, while also establishing **professional networks** with Federation's industry partners

- graduate from Australia's first Co-operative University with the **practical skills, knowledge, networks** and **confidence** to contribute to one of the most progressive industries in the world.

Our Master of Technology courses are deeply connected with industry to provide students a contemporary degree and on-the-job training before they graduate. Whether your passion lies in processing large amounts of data, using IT knowledge to give a business strategic advantage, maintaining high-quality systems or developing new programs – you'll enjoy a wide variety of interesting electives throughout your course.

We also equip you with transferable skills in critical thinking, leadership, digital literacy, interpersonal skills, and entrepreneurship that are tailored to emerging and current industry trends.

What's in the detail?

INTAKES

Semester 1 (February)
Semester 2 (July)

CAMPUSES

Mt Helen (Ballarat)

DURATION

2 years full time
(240 credit points)

FEES (ANNUAL)

$28,240
New international students may be eligible for a tuition fee scholarship.
federation.edu.au/current-students/starting-at-federation/scholarships/international-scholarships ⬉

ACCREDITATION

This course holds Professional Level accreditation with the Australian Computer Society (ACS) ⬉

Minush, Nepal
Master of Technology (Enterprise Systems and Business Analytics)

"The Founders we worked with, during my masters project, set us tasks such as developing the front end, back end that connects to the database, and retrieving the information from different API's – integrating everything to develop the new business website."

During the project, Minush says she learnt both IT-relevant skills and other important skills necessary for communicating and working with people from diverse backgrounds.

"As the team leader I learnt how to manage the project, set goals and collaborate in a team. Also, as the app developer and designer, I learnt how important it was to chat to the client to obtain the requirements and specific scope before putting into the wireframe and learning different programming languages to develop the platform."

Sample course plan

Students complete a common first semester by undertaking foundational courses in data and analytics, networking and security, programming and digital revolution theory. Upon completing your first semester of study, you'll have the flexibility to tailor your degree by selecting to specialise in one of the following majors:

Course plan by specialisation

ENTERPRISE SYSTEMS AND BUSINESS ANALYTICS (CRICOS CODE 095030G)		
	YEAR 1	**YEAR 2**
SEMESTER 1	Understanding the digital revolution (15 credit points)	IT service management and professional culture (15 credit points)
	Big data and analytics (15 credit points)	Leadership in IT project management (15 credit points)
	Networking and security (15 credit points)	Real time analytics (15 credit points)
	Foundations of programming (15 credit points)	Supply chain operations and management (15 credit points)
SEMESTER 2	Enterprise systems (15 credit points)	Masters project (60 credit points)
	Professional research and communication (15 credit points)	
	Business process analytics and change (15 credit points)	
	Business intelligence & data warehousing (15 credit points)	

SOFTWARE ENGINEERING (CRICOS CODE 080497G)		
	YEAR 1	**YEAR 2**
SEMESTER 1	Understanding the digital revolution (15 credit points)	Comparative programming languages (15 credit points)
	Big data and analytics (15 credit points)	Software engineering: Analysis and design (15 credit points)
	Networking and security (15 credit points)	IT service management and professional culture (15 credit points)
	Foundations of programming (15 credit points)	Leadership in IT project management (15 credit points)
SEMESTER 2	Enterprise systems (15 credit points)	Masters project (60 credit points)
	Professional research and communication (15 credit points)	
	Software testing (15 credit points)	
	Software engineering methodologies (15 credit points)	

IT industry masters project

In the final semester all students dedicate their time solely to a Masters project. The project requires students to work in multidisciplinary groups on a real-world problem, pitching the solution back to the client. Federation's vast network of partners support this project, offering students mentorship and guidance while simulating a manager-employee relationship.

Course details, fees and sample structures are subject to variation. For the most up to date information, visit our Course Finder website, study.federation.edu.au

Community and industry engagement

Put your dream career in reach

Studying information technology at Federation University can catapult you into a fulfilling career in one of the world's most progressive industries. Upon graduating, you will hold a globally recognised qualification, that's been accredited by the Australian Computer Society.

Upon graduation you'll have the knowledge, skills and experience to pursue a fulfilling career in a wide range of information technology roles, including:

- Systems designer
- SAP consultant
- Systems administrator or tester
- Software analyst
- ERP project manager
- Programmer
- Developer
- Communications manager

Industry networks close by

Our Technology Parks, based at Mt Helen and SMB campuses are home to major organisations such as IBM®, Concentrix and Grampians Health Ballarat. The Morwell Innovation Centre, located near our Gippsland campus, furthers the reach of our collaboration with business and the community.

As Australia's first Co-operative University, we're expanding on our commitment to provide learning beyond the classroom to every student who studies with us. We are embedding co-operative learning in every course by 2025, meaning you'll experience real workplaces, real industry projects and have real career opportunities before you graduate. Our strong network of local and global employers make this possible and continue to provide industry engagement opportunities to our students now and into the future.

OUR INDUSTRY PARTNERS INCLUDE:

IBM   Runway   acs   SAS   SAP

Entry and application information

Entry requirements

To be eligible for this course students must have **successfully completed**:

- A recognised 3-Year Australian **bachelor degree** (or equivalent); and
- **Academic IELTS overall score of 6.0**, with no bands less than 6.0 (or equivalent)

For more information on satisfying English language requirements, including accepted test courses, please visit **this link** ↖
federation.edu.au/english-language-requirements

Once you have submitted your application, you will be assessed against the course requirements and for available pathways and scholarships.

Pathways designed specifically for you

If you have not met the English entry requirements for this course, don't worry. With a range of pathways now available, you can be studying at Federation University sooner than you think.

English Language courses (CRICOS Code 113565A)

Students who do not meet the English language requirements for this course may be eligible to complete our General English or English for Academic Preparation (EAP) courses. These courses have been newly designed to equip you with the English speaking, reading, writing and listening skills needed to be successful in your university studies. Depending on your English level, the Admissions team will package the appropriate pathway option together with your chosen degree.

Find out more ↖
2024 course information will become available soon.
Visit study.federation.edu.au/area/pathways

Melvin, The Philippines
Master of Technology (Software Engineering)
(Pictured far left)

" *My experience at the University has been great so far, as has been the support services and the campus facilities. Through the degree, I've had great industry experiences through the work-integrated learning opportunities offered by the University. I've networked with entrepreneurs and even taught children simple programming – I've had a lot of fun.* "

Scholarships

Studying in Australia just became more affordable

At Federation University Australia, we're driven to make a real difference to the lives of every student who studies with us.

Our scholarships help ease the financial stress of commencing study at a university, especially for international students who are moving to Australia. From accommodation support to tuition fee discounts and research grants, we offer a range of scholarships to help you start studying sooner.

Visit our website to learn more about available scholarships, terms and conditions, eligibility criteria, and how to apply.

Find out more ↖
federation.edu.au/scholarships

Falih, Indonesia
Master of Technology (Enterprise Systems and Business Analytics)

" *Federation University has great industry connections. We work with cutting-edge software from IBM, SAP and other leading IT companies, which gives us really relevant experience and skills.*

There are actually IBM offices in the Technology Park around campus. That's a company I'd love to work for, so it's great that they're based so close.

The student support at Federation is really good, too. I've had one-on-one tutorials with a study skills tutor, and there's also regular study groups run by student mentors that I always attended before exams. The course lecturers are easy to talk to and give excellent feedback on assignments and tests. "

Feel supported to succeed

We understand that choosing to study abroad is both an exciting and challenging time. Help at Federation University is readily available – be it support with your English, understanding your assignments, or finding someone to talk to about personal life concerns. No matter the challenge, our range of student-focused services enables international students to develop skills, knowledge and confidence in a supportive environment that is united in your ambition to succeed.

Some of our support services include:

	English Language Support Service
	Libraries and Learning Skills Advisory
	Counselling
	International Student Employability
	International Student Advisory
	Spiritual facilities
	Support for students with disabilities
	Sports and clubs

Your next steps

Whether you're applying directly or via an agent, just follow these simple steps

1 — 2 — 3 — 4 — 5 — 6 — 7

Step 1

FIND YOUR COURSE

Find the Federation University course you wish to study

- For undergraduate and postgraduate courses visit **study.federation.edu.au**
- Check you meet the academic entry requirements
- Check you meet the English language requirements
- Check for any essential requirements that you need to complete in addition to your application.

Essential requirements may include auditions, tests or interviews.

Step 2

APPLY

- International students or their agents must apply through the **StudyLink** online application system

  Visit **federation.edu.au/international/study-at-federation/apply**
- Follow the instructions and ensure you have attached all relevant supporting documents.
- Details of documentation required is available at **federation.edu.au/international/prepare**

Note: Be aware of cut off dates.

Step 3

ASSESSMENT

Your application will be assessed by our team

- English language requirements
- Academic entry requirements
- Scholarships

Step 4

OFFER MADE
Congratulations!

You will be sent an International Student Offer and Acceptance Pack that includes:

- Letter of Offer
- Information for accepting your offer
- GTE and/or financial assessment forms*

Refer **federation.edu.au/SSVF** for more information.

*International students may be required to complete a pre-visa screening process as a condition of their offer under the requirements of the Simplified Student Visa Framework (SSVF). The requirements will depend on a number of factors.

Step 5

ACCEPTANCE AND PAYMENT

Once you have provided all documentation and met all conditions, sign the acceptance of your offer letter and pay the required fees.

We will then issue you with an electronic Confirmation of Enrolment (CoE).

Note: Payments to Federation must be made via Convera GlobalPay through your StudyLink application.

Step 6

VISA APPLICATION WITH COE

You will need your CoE to apply for your Australian student visa.

More information on the visa application process is available at **immi.homeaffairs.gov.au**

Note: Make sure you plan in advance to get your visa in time.

Step 7

PREPARE TO ARRIVE

We will send you an International Student Support Guide to help you understand what to expect.

FLIGHTS

Make sure you arrive in time to attend the compulsory International Student Orientation Program that is held in the weeks before semester commences.

ACCOMMODATION

Check out the offers from FedLiving – on-campus accommodation in Ballarat, Berwick and Gippsland.

Federation University

Federation.edu.au
International phone:
+61 3 5327 9018

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