ENGINEERING AND INFORMATION TECHNOLOGY

POSTGRADUATE PROGRAMS

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
A university in the world’s top 100 that offers excellence in teaching, world-class learning environments, state-of-the-art facilities and opportunities to excel beyond the classroom: what more could you want?

YOUR UQ. YOUR ADVANTAGE.
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UQ FAST FACTS

The University of Queensland provides students with a range of quality resources in engineering and information technology, access to award winning teachers and a university experience like no other.

3 CAMPUS

12 COFFEE SHOPS

4500 WIRELESS ACCESS POINTS

8 RESEARCH INSTITUTES

10 MUSEUMS

11 UQ RESIDENTIAL COLLEGES

15 LIBRARY BRANCHES

46,863+ STUDENTS FROM MORE THAN (11,324 INTERNATIONAL AND 12,633 POSTGRADUATE)

142 COUNTRIES

2836 ACADEMIC STAFF

190+ CLUBS AND SOCIETIES

210,000 ALUMNI

UQ RANKINGS

Rated “well above world standard” in more specialised fields of research than any other Australian university (2012 Excellence in Research for Australia (ERA) survey)

Rated Five Stars Plus (QS Stars™)

43rd globally (2014 QS World University Rankings)

65th globally (2014 Times Higher Education World University Rankings)

85th worldwide and equal 5th in Asia Pacific region (2013 Shanghai Jiao Tong University Academic Ranking of World Universities (ARWU))

56th global ranking (2014 Performance Ranking of Scientific Papers for World Universities)

Maximum five-star rating for student demand, research grants, research intensity, staff qualifications, and good teaching (2014 Australian Good Universities Guide)

One of only three Australian members of the global Univeritas 21, founding member of the Group of Eight (Go8) universities, and member of Universities Australia
WHY CHOOSE UQ FOR POSTGRADUATE STUDIES?

TAILORED COURSEWORK CURRICULUM

Our tailored postgraduate curriculum takes place both on campus and at industry sites. As a postgraduate coursework student, you will be taught by academic staff who are at the forefront of research in their fields. As a result, teaching material is current, supported by world-class research and is relevant to the changing needs of industry.

LEVERAGE OUR INDUSTRY PARTNERSHIPS

UQ’s reputation for high quality teaching and research has enabled us to partner with leading global organisations and philanthropic partners to develop infrastructure, technological resources, scholarships and attract international expertise. UQ’s commercially oriented research has developed many novel and relevant technologies that have led to new commercial products via licensing or start-up companies.

UNLOCK MORE CAREER OPPORTUNITIES

UQ’s postgraduate studies provide a strong foundation to advance your career. They augment your existing qualifications and experience to enable you to cross disciplinary boundaries, develop specialist skills and to get ahead in your chosen field.

BE INDUSTRY READY

Industries want employees who have a combination of technical knowledge, business and research skills. At UQ, we prepare our students with these skills coupled with advanced interpersonal skills, so you can develop genuine relationships with customers, suppliers, business partners, and have the ability to work in a team.

PRACTICAL EXPERIENCE

Extensive practical experience is available through site visits, industry work, and internship placements, all of which are underpinned with advanced theory to meet industry needs. Postgraduate studies equip students with an understanding of industry practices, and focus on investigating and resolving design and operational problems in a safe and efficient manner.

CHALLENGE YOURSELF

Investing in postgraduate studies will develop your skills and knowledge in areas identified as current and future priorities and will enable you to take advantage of opportunities arising from local and global challenges.
## FACTS AND FIGURES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brisbane</strong></td>
<td>Capital city of the State of Queensland, Australia</td>
</tr>
<tr>
<td><strong>Population</strong></td>
<td>• 2.1 million (Brisbane city)</td>
</tr>
<tr>
<td></td>
<td>• 4,658,557 (Queensland)</td>
</tr>
<tr>
<td></td>
<td>• Brisbane is Australia’s third-largest city after Sydney and Melbourne</td>
</tr>
<tr>
<td><strong>Time Zone</strong></td>
<td>GMT/UTC + 10 hours</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>Australia is a multicultural country so you will hear people speaking a variety of languages</td>
</tr>
<tr>
<td><strong>Currency</strong></td>
<td>Australian Dollar (AU$)</td>
</tr>
<tr>
<td><strong>Climate</strong></td>
<td>Subtropical</td>
</tr>
<tr>
<td></td>
<td>• Summer: December to February; Autumn: March to May; Winter: June to August; Spring: September to November</td>
</tr>
<tr>
<td></td>
<td>• Summer maximum average temperatures are around 29° Celsius (84° Fahrenheit)</td>
</tr>
<tr>
<td></td>
<td>• Average maximum daytime temperature in winter is around 21° Celsius (70° Fahrenheit)</td>
</tr>
<tr>
<td></td>
<td>• You should wear a hat, cool clothing that protects you from the sun, and maximum UV-protection (30+) sunscreen during summer</td>
</tr>
<tr>
<td></td>
<td>• You will need a long-sleeved jacket and warm clothes during the early morning and evening in winter</td>
</tr>
</tbody>
</table>
STUDYING IN BRISBANE

Built on and around the hills overlooking the Brisbane River, Australia’s third largest city is characterised by a subtropical climate, safe relaxed outdoor lifestyle, unique “Queenslander” architecture, bustling restaurants and cafés, and thriving arts, sports and entertainment scenes.

With a multicultural population of 2.1 million, Brisbane has all the advantages of a large modern city – cafés, restaurants, bars, galleries, museums, sporting events, and shopping districts – yet retains the friendliness and charm of a small regional town. Queensland’s subtropical climate, lush landscape, and unique architecture all contribute to this safe and welcoming environment you will be pleased to call home.

An hour’s drive south of the city are the golden beaches and theme parks of the Gold Coast. North from Brisbane are the Sunshine Coast beaches, national parks, rainforests and attractions like Australia Zoo. Just off the coast are the pristine Stradbroke and Moreton Islands, both popular day-trip or holiday destinations for locals and visitors alike.

Entertainment

Entertainment in Brisbane encompasses art galleries – including the Gallery of Modern Art (GOMA), an inner city beach, museums, unconventional and sophisticated live art venues, a thriving live music scene, cinemas, and kilometres of beautiful riverside parklands perfect for relaxing on hot summer afternoons. Our lively festival scene, which includes the Brisbane International Film Festival, Brisbane Writers’ Festival and the Brisbane Festival, attracts celebrated national and international participants.

Sport

Whether you are watching or participating, Brisbane’s amazing weather, gorgeous parks and huge range of sporting facilities make physical activity almost impossible to avoid. Kayak along the Brisbane river, rock climb your way to the top of the Kangaroo Point cliffs, ride along more than 20 kilometres of riverside pathways, join one of our many sporting clubs, or barrack like a local when you attend a rugby union, rugby league, cricket, “Aussie rules” or football match at one of our famous stadiums.

Food

With just under a third of Brisbane’s population born overseas, it makes sense that you will find cuisine from almost every culture in our thriving restaurant industry, so if you’re missing food from home, it’s likely that you’ll find what you’re hankering after.

Attend one of our popular farmers’ markets every weekend for fresh produce, music and delicious meals outdoors. During the week, drink coffee at one of the many cafés that dot the city and suburbs.

Getting around

One of the most picturesque and practical ways to see Brisbane is on the CityCat, a ferry that runs along the length of the river, from UQ’s St Lucia campus to the riverside suburb of Hamilton. Brisbane also has an extensive bus and train network, so everything you want to see or do is easily accessible. We recommend buying a go card, an electronic ticket that allows you to travel on all Brisbane public transport services at a discounted price (see www.translink.com.au/tickets-and-fares/go-card for details).
POSTGRADUATE COURSEWORK

POSTGRADUATE PROGRAM OPTIONS
UQ offers Engineering and ICT postgraduate students practical and industry-focused programs, a wide range of quality resources and access to more award-winning teachers and researchers than any other university in Queensland. You will learn from and be supervised by academic staff who are leaders in pioneering research.

Representing some of the University's largest research schools, UQ Engineering and ICT postgraduate programs contribute to UQ's reputation as one of Australia's major providers of industry-funded research and development expertise.

At UQ, you can undertake postgraduate coursework studies in a graduate certificate, graduate diploma, or coursework masters.

GRADUATE DIPLOMA
Graduate diplomas offer more in-depth study than graduate certificates, and provide a means for people to move into new areas of expertise.

Graduate diplomas consist of one year of full-time study or an equivalent part-time commitment. Graduate diplomas are usually for students who have already received a bachelor degree in a relevant field.

Entry requirements
Generally, you require a bachelor degree in a similar field, or further study after high school with two or more years work experience in a related field.

COURSEWORK MASTERS
Coursework masters programs offer you the chance to extend your professional understanding, change careers, or adjust to changing employment requirements.

Part-time enrolment is available to domestic students and international students studying offshore.

Coursework masters programs usually take one to two years of full-time study. Typically there is one year of study for students with an appropriate four year undergraduate degree, including a background relevant to the proposed field of study.

Students who lack a relevant background may be accepted into a graduate certificate with a view to proceeding to a coursework masters program upon completion.

Entry requirements
Generally, you require a bachelor degree in a similar field, or a graduate diploma in engineering or ICT.

GRADUATE CERTIFICATE
Graduate certificates extend your knowledge in a specialist area. They help to upgrade qualifications or provide specific advanced skills required in specialist industries. Graduate certificates involve six months of full-time study or an equivalent part-time commitment.

Entry requirements
Generally, you require a bachelor degree in a similar field, or further study after high school with two or more years work experience in a related field.
COMPUTER SCIENCE

**Location**
St Lucia

**Start**
Semester 1, 2

**Mode**
Internal

**Entry Requirements**
Bachelor degree in Information Technology or Computer Science or related field OR the Graduate Diploma/Certificate in Computer Science or equivalent.

**Duration (Full-time)**
MASTERS 1 year (#16) or 1.5 years (#24), depending on student background
GRADUATE DIPLOMA 1 year (#16)
GRADUATE CERTIFICATE 0.5 years (#8)

**Indicative semester fees (AUD$)**
Domestic Students: $10,500
International Students: $16,640

**PROGRAM OVERVIEW**
These cutting-edge coursework programs for information and communications technology (ICT) professionals with a bachelor degree in Computer Science/Information Technology are designed to prepare you for the challenges of the ever-changing world of ICT and rapidly advancing technologies.

It can be used as a general upgrade of skills or as a skill upgrade in a specific area, such as information systems, software engineering,

distributed systems, networks, security of computing systems and other ICT areas. It can also prepare ICT professionals for entry into research degrees: MPhil and PhD.

**STUDY AREAS**
You can focus on one or several areas of interest when choosing from the range of computer science courses, including an advanced research project at masters level.

**SAMPLE COURSE PLAN**
**Master of Computer Science (#24)**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Advanced Algorithms and Data Structures</th>
<th>Models of Software Systems</th>
<th>Service-Oriented Architectures</th>
<th>Artificial Intelligence</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Communication Systems</td>
<td>Advanced Embedded Systems</td>
<td>Information Analysis and Design</td>
<td>Information Security</td>
</tr>
<tr>
<td>Year 2</td>
<td>Sem 1</td>
<td>Machine Learning</td>
<td>Advanced Human-Computer Interaction</td>
<td>Computer Science Research Project</td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of subject offerings prior to subject selection and enrolment. For full program information visit www.uq.edu.au/study
COMPUTER SCIENCE (MANAGEMENT)

Location | St Lucia
Start | Semester 1, 2
Mode | Internal
Indicative Semester Fees (AUD$)
Domestic Students: $10,890
International Students: $16,640

Entry Requirements
Bachelor degree in Information Technology or Computer Science or related field
OR the Graduate Diploma/Certificate in Computer Science or equivalent.

Duration (Full-time)
MASTERS 2 years (#32)

PROGRAM OVERVIEW
This Master program will provide you with the combination of advanced courses in information and communications technology (ICT) and business and management skills required by the ICT industry.

The combination of the ICT and management skills is currently a crucial requirement for candidates seeking employment in the ICT industry. The job market is changing; the demand for pure IT/CS jobs are diminishing while the demand for IT professionals with good business and management skills is growing.

STUDY AREAS
You have the flexibility to either upgrade general ICT skills or focus on a specific area such as information systems, software engineering, distributed systems, computer networks or information security.

SAMPLE COURSE PLAN
Master of Computer Science (#32)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Machine Learning</th>
<th>Business Information Systems</th>
<th>Data Mining</th>
<th>Information Retrieval and Web Search</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Distributed Computing</td>
<td>Entrepreneurship and New Ventures</td>
<td>Spatial and Multimedia Databases</td>
<td>Social and Mobile Computing</td>
</tr>
<tr>
<td></td>
<td>Sem 2</td>
<td>Artificial Intelligence</td>
<td>Operating International Business</td>
<td>Computer Science Research Project</td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
BACHELOR OF ENGINEERING (HONOURS) / MASTER OF ENGINEERING

Location: St Lucia
Start: Semester 1, 2
Mode: Internal

Entry Requirements:
Entry to the 5 year program BE (Hons)/ME will be via student application after completion of at least 48 towards a Bachelor of Engineering (Hons) in a relevant discipline and is available only to students who are performing at Honours level (i.e. a cumulative weighted GPA of at least 5.0) at the time of application.

Duration (Full-time):
5 years

PROGRAM OVERVIEW
The integrated Bachelor of Engineering (Honours) and Master of Engineering (BE (Hons)/ME) is the first five-year engineering degree in Australia to integrate a semester placement, either in industry or research, into a degree with the Master’s level coursework. Learn how to generate ideas and adapt innovatively to changing environments; identify, formulate and investigate problems; create innovative solutions and improve current practice.

STUDY AREAS

- BE (Hons)/ME Chemical
- BE (Hons)/ME Chemical and Biological
- BE (Hons)/ME Chemical and Environmental
- BE (Hons)/ME Chemical and Materials
- BE (Hons)/ME Chemical and Metallurgical
- BE (Hons)/ME Electrical
- BE (Hons)/ME Electrical and Biomedical
- BE (Hons)/ME Electrical and Computer
- BE (Hons)/ME Software
- BE (Hons)/ME Mechanical Engineering
- BE (Hons)/ME Mechanical and Aerospace Engineering
- BE (Hons)/ME Mechanical and Materials Engineering
- BE (Hons)/ME Mechatronic Engineering

For full program information visit www.eait.uq.edu.au/be-me

ZHU YUTONG
(BE(Hons)/ME Chemical Engineering)

“Having completed my Study Abroad year at UQ, I decided to undertake the Bachelor of Engineering and Master of Engineering program, which has been very rewarding for me. As part of this program, every student is required to complete a six-month industrial or research placement, and I was fortunate enough to undertake a research placement with Georgia Institute of Technology in the United States.

The BE (Hons)/ME program provides me with adequate practices to improve my abilities in many aspects and offers comprehensive knowledge in chemical engineering, which will be helpful for me when looking for a job.”
ENGINEERING SCIENCE

Location
St Lucia

Start
Semester 1, 2

Mode
Internal

Indicative Semester Fees (AUD$)
Domestic Students: $11,240
International Students: $16,640

Entry Requirements
Bachelors degree in engineering or related field

International students must undertake this program on campus at UQ on a full time basis to be eligible to apply for an Australian student visa.

Duration (Full-time)
MASTERS 1.5 years (#24) or 1 year (#16)
GRADUATE CERTIFICATE 0.5 years (#8)

PROGRAM OVERVIEW
With great global and local challenges – climate change and the greenhouse effect, clean energy, reliable water supplies, infrastructure for booming populations, sustainable resource development, and efficient and effective communications – engineers have many opportunities to be part of the solution at all scales from molecular to global. You will learn from staff who are internationally recognised as leading experts in their fields, using advanced facilities.

STUDY AREAS
• Electrical Engineering
• Engineering Science
  + Chemical Engineering
  + Civil Engineering
  + Materials
  + Mechanical Engineering
  + Mechatronic Engineering
• Software Engineering
• Systems Engineering

SAMPLE COURSE PLAN
Master of Engineering Science (#16)

Year 1
Sem 1
Advanced Computational Techniques
Experimental Design
Project Management Application
Engineering Project

Sem 2
Advanced Engineering Practice
Advanced Engineering Lab Techniques
Environmental Performance of Materials
Engineering Project

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study

ELECTRICAL ENGINEERING

The Electrical Engineering program offers 3 fields of study; Biomedical, Microwave Telecommunications, and Power Systems.

SAMPLE COURSE PLAN
Master of Engineering Science (#24)

Year 1
Sem 1
Advanced Computation Techniques in Engineering
Electronic Circuits
Introduction to Control Systems
Electrical Energy Conversion and Utilisation

Sem 2
Medical and Industrial Instrumentation
Digital Signal Processing
Course from chosen Field of Study
Engineering Postgraduate Project

Year 2
Sem 1
Image Processing and Computer Vision
Power Systems Planning and Reliability
Course from chosen Field of Study
Engineering Postgraduate Project

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
## SOFTWARE ENGINEERING

**SAMPLE COURSE PLAN**  
**Master of Engineering Science (#24)**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Systems Engineering</th>
<th>Engineering Project Management</th>
<th>Advanced Computational Techniques in Engineering</th>
<th>Models of Software Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Concurrency: Theory and Practice</td>
<td>Algorithms and Data Structures</td>
<td>Embedded Systems Design and Interfacing</td>
<td>Engineering Postgraduate Project</td>
</tr>
</tbody>
</table>

| Year 2 | Sem 1 | Machine Learning | Spatial and Multimedia Databases | Advanced Embedded Systems | Engineering Postgraduate Project |

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit [www.uq.edu.au/study](http://www.uq.edu.au/study)

## SYSTEMS ENGINEERING

**SAMPLE COURSE PLAN**  
**Master of Engineering Science (#24)**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Consumer and Firm Behaviour</th>
<th>Engineering Project Management</th>
<th>Systems Engineering</th>
<th>Models of Software Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Systems Safety Engineering</td>
<td>Advanced Computational Techniques in Engineering</td>
<td>Systems Thinking for Sustainability</td>
<td>Engineering Postgraduate Project</td>
</tr>
</tbody>
</table>

| Year 2 | Sem 1 | Managing Organisational Behaviour | Machine Learning | Advanced Embedded Systems | Engineering Postgraduate Project |

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit [www.uq.edu.au/study](http://www.uq.edu.au/study)

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**MERRYN YORK**  
Chief Executive - Powerlink Queensland

Bachelor of Electrical Engineering (Hons), 1985  
Master of Engineering Science, 1988  
Graduate Certificate in Applied Law, 2001

As Chief Executive, Merryn has more than 20 years’ experience in the Queensland electricity industry. Merryn’s career encompasses experience in strategic business development and asset management to optimise the long-term return on investment, network planning, regulatory affairs, customer management strategic development of the transmission network.
ENGG SCIENCE (MANAGEMENT)

**LOCATION**
St Lucia

**ENTRY REQUIREMENTS**
Bachelors degree in engineering or related field
International students must undertake this program on campus at UQ on a full time basis to be eligible to apply for an Australian student visa.

**DURATION (FULL-TIME)**
MASTERS 2 years (#32)

**PROGRAM OVERVIEW**
The Master of Engineering Science (Management) combines postgraduate studies in engineering with business, economics and management. Designed for engineering graduates without a prior formal management background, the program provides you with opportunities to develop business management skills, while also extending your engineering knowledge, research experience or technical expertise.

**STUDY AREAS**
- Engineering Science
  - Chemical Engineering
  - Civil Engineering
  - Materials
  - Mechanical Engineering
  - Mechatronic Engineering
- Electrical Engineering
- Software Engineering

**SAMPLE COURSE PLAN**
Master of Engineering Science (Management) (#32)

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem 1</th>
<th>Sem 2</th>
<th>Year 2</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operating International Business</td>
<td>Systems Thinking for Sustainability</td>
<td>Advanced Engineering Practice</td>
<td>Advanced Computational Techniques in Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principles of Strategic Management</td>
<td>Carbon and Energy Management</td>
<td>Experimental Design</td>
<td>Advanced Engineering Laboratory Techniques</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Marketing</td>
<td>Advanced Strategic Management</td>
<td>Environmental Performance of Materials</td>
<td>Applications of Project Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship and New Ventures</td>
<td>Social Enterprise and Not for Profits</td>
<td>Engineering Project</td>
<td>Engineering Project</td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
ENERGY STUDIES

Location | St Lucia
---|---
Start | Semester 1
Mode | Internal

Entry Requirements
An approved degree in a relevant field of study.

Indicative Semester Fees (AUD$)
Domestic Students: $16,080
International Students: $16,640

Duration (Full-time)
MASTERS 1.5 years (#24)
GRADUATE DIPLOMA 1 year (#16)
GRADUATE CERTIFICATE 0.5 years (#8)

PROGRAM OVERVIEW
The Master of Energy Studies is a new and innovative program developed by the International Energy Centre (IEC). The IEC is a network of three leading Australian universities (The University of Queensland, The University of Western Australia and The University of Newcastle) and industry collaborator Glencore Xstrata. The program equips future government, research, industry and community leaders with the skills to address energy challenges for a sustainable future.

STUDY AREAS
Students can select their preferred specialisation at the time of enrolment in:
- Carbon Management
- Low Carbon Solutions

The Carbon Management specialisation features courses with a business-focused approach.

The Low Carbon Solutions specialisation, featuring courses with a technology-focused approach.

SAMPLE COURSE PLAN
Master of Energy Studies (#24)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Energy and Technology Principles</th>
<th>Fundamentals of Climate Change</th>
<th>Drivers for the Transition to a Low Carbon Economy</th>
<th>Low Emission Technologies and Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem 2</td>
<td>Economics and Finance of Carbon Management</td>
<td>Energy Options to Fuel the Low Carbon Economy</td>
<td>Course specific to chosen specialisation</td>
<td>Course specific to chosen specialisation</td>
<td></td>
</tr>
</tbody>
</table>

| Year 2 | Sem 1 | Professional Project in Energy Studies |

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
### INFORMATION TECHNOLOGY

<table>
<thead>
<tr>
<th>Location</th>
<th>St Lucia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>Semester 1, 2</td>
</tr>
<tr>
<td>Mode</td>
<td>Internal</td>
</tr>
<tr>
<td><strong>Indicative semester fees (AUDS)</strong></td>
<td></td>
</tr>
<tr>
<td>Domestic Students: $10,500</td>
<td></td>
</tr>
<tr>
<td>International Students: $16,640</td>
<td></td>
</tr>
<tr>
<td><strong>Entry Requirements</strong></td>
<td>Bachelor degree in a field other than Information Technology or a Graduate Certificate or Graduate Diploma in Information Technology.</td>
</tr>
<tr>
<td><strong>Duration (Full-time)</strong></td>
<td></td>
</tr>
<tr>
<td>MASTERS 2 years (#32)</td>
<td></td>
</tr>
<tr>
<td>GRADUATE DIPLOMA 1 year (#16)</td>
<td></td>
</tr>
<tr>
<td>GRADUATE CERTIFICATE 0.5 years (#8)</td>
<td></td>
</tr>
</tbody>
</table>

### PROGRAM OVERVIEW

The Master of Information Technology will give you skills in web development, software development, information systems and other aspects of information technology. You can build on your previous skills and be able to apply information technology within your own industries. The Master of Information Technology is an ideal choice for a student who does not have a previous IT degree and wishes to enhance their current discipline areas through specialist IT knowledge.

### SAMPLE COURSE PLAN

**Master of Information Technology (#24)**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Introduction to Information Systems</th>
<th>Introduction to Computer Systems</th>
<th>Introduction to Web Design</th>
<th>Introduction to Software Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Relational Database Systems</td>
<td>Discrete Mathematics</td>
<td>Service- Oriented Architectures</td>
<td>Decision Support Systems</td>
</tr>
<tr>
<td>Year 2</td>
<td>Sem 1</td>
<td>Advanced Software Engineering</td>
<td>Design Computing Studio 3 - Proposal</td>
<td>Advanced Database Systems</td>
<td>Masters Thesis</td>
</tr>
<tr>
<td></td>
<td>Sem 2</td>
<td>Design Computing Studio 3 - Build</td>
<td>Data Mining</td>
<td>Masters Thesis</td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study

### TINGTING GIBSON

Research Higher Degree Student – Complex and Intelligent Systems

“Exploring and visualising the functional roles of interneurons”
INFORMATION TECHNOLOGY (MANAGEMENT)

Location: St Lucia

Start: Semester 1, 2

Mode: Internal

Indicative Semester Fees (AUD$)
- Domestic Students: $10,890
- International Students: $16,640

Entry Requirements
Bachelors degree in a field other than Information Technology.

Duration (Full-time)
MASTERS 2.5 years (#40)

PROGRAM OVERVIEW

The Master of Information Technology (Management) will broaden your career opportunities by developing your skills in IT application development combined with business management.

This program has especially been designed for students who want to develop new or additional IT skills and become an inspirational IT business leader of the future. It consists of an extensive menu of intermediate and advanced level courses which will prepare you for a dynamic information technology workforce.

Job opportunities are widespread, as employers come to demand graduates with both IT and business skills. Graduates find work in large multinational companies; state and federal government departments; and in many small, specialised and emerging companies.

SAMPLE COURSE PLAN

Master of Information Technology (#32)

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Introduction to Information Systems</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td></td>
<td>Relational Database Systems</td>
<td>Strategic Human Resource Management</td>
</tr>
<tr>
<td>Year 2</td>
<td>Advanced Software Engineering</td>
<td>Information Analysis and Design</td>
</tr>
<tr>
<td></td>
<td>Managing Information Systems</td>
<td>Design Computing Studio 3 - Build</td>
</tr>
<tr>
<td>Year 3</td>
<td>Design Computing Studio 3 - Proposal</td>
<td>Advanced Database Systems</td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
INTERACTION DESIGN

Location
St Lucia

Entry Requirements
Bachelors degree in a field other than interaction design or information environments OR Graduate Certificate/Diploma in Interaction Design.

Duration (Full-time)
MASTERS 2 years (#32)
GRADUATE DIPLOMA 1 year (#16)
GRADUATE CERTIFICATE 0.5 years (#8)

Start
Semester 1, 2

Mode
Internal

Indicative semester fees (AUD$)
Domestic Students: $10,120
International Students: $16,640

PROGRAM OVERVIEW
Interaction with electronic devices, through computer-based technology, networks and telecommunications, is a major part of our daily lives and will become increasingly important in the future. From early childhood onwards we are connected to networks, telecommunications and computer-based technology, therefore the focus of systems design and design in technology, and consequently the focus on designing for people when creating new technologies becomes more and more important.

The emerging challenges in this radically evolving field are not so much with the nature of new technologies, but with their design. How should these technologies be experienced in our lives? How can they support and enhance our everyday practices? What should they help us become?

STUDY AREAS
Postgraduate studies in Interaction Design will train you to understand contexts of technology use and solve usability problems. You will explore design issues related to physical and digital environments that support interaction between people and technology across multiple disciplines and specialist areas.

SAMPLE COURSE PLAN
Master of Interaction Design (#32)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Design Thinking</th>
<th>Introduction to Web Design</th>
<th>Human-Computer Interaction</th>
<th>Graphic Design</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Design Computing Studio 1 - Interactive Technology</td>
<td>Introduction to Software Engineering</td>
<td>Digital Prototyping</td>
<td>Qualitative Research Practice</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Sem 1</th>
<th>Masters Thesis</th>
<th>Physical Computing and Interaction Design Studio</th>
<th>Web Information Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Masters Thesis</td>
<td>Social and Mobile Computing</td>
<td>Advanced Human-Computer Interaction</td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
INTEGRATED WATER MANAGEMENT

<table>
<thead>
<tr>
<th>Location</th>
<th>St Lucia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>Semester 1</td>
</tr>
<tr>
<td>Mode</td>
<td>Internal / External</td>
</tr>
<tr>
<td>Indicative Semester Fees (AUD$)</td>
<td></td>
</tr>
<tr>
<td>Domestic Students: $16,640</td>
<td></td>
</tr>
<tr>
<td>International Students: $16,640</td>
<td></td>
</tr>
</tbody>
</table>

**Entry Requirements**
Bachelor degree in a field relevant to water management OR the Graduate Diploma in Integrated Water Management. A minimum of two years practical experience in a related field is preferred.

**Duration**
- MASTERS 1.5 years (#24) full-time or 3 years part-time/distance
- GRADUATE DIPLOMA 1 year full-time (#16) or 2 years part-time/distance
- GRADUATE CERTIFICATE 0.5 years (#8) or 1 year part-time/distance

**PROGRAM OVERVIEW**
The program is designed to develop you as a future water leader. You will gain the knowledge and skills required to create innovative, ‘whole-of-water-cycle’ solutions to regional, national and international water challenges.

You will be capable of providing water management expertise to help reduce poverty through sustainable use of water; provide technical and managerial input into the planning, design and operation of water projects and facilities; understand the principles of managing water, wastewater and stormwater systems and water sensitive urban design; recognise the socio-economic factors relevant to effective water solutions; and understand governance frameworks for good water management. You will develop effective leadership as well as the strategic, managerial and technical skills you need to advance in the water sector.

**SPECIALISATION STREAMS**
1. International Development (Water Supply, Sanitation and Hygiene; Community, Livelihoods, Development and Water)
3. Water, Land and People (Water and Agriculture Landscapes; Collaborative Planning)

**SAMPLE COURSE PLAN**
*Master of Integrated Water Management (#24)*

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>New perspectives on project management</th>
<th>Science of water</th>
<th>Water, sustainability and development</th>
<th>Water governance and policy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sem 2</td>
<td>Catchment and aquatic ecosystem health</td>
<td>Water planning and economics</td>
<td>Course specific to chosen stream</td>
<td>Course specific to chosen stream</td>
</tr>
<tr>
<td>Year 2</td>
<td>Sem 1</td>
<td>Professional placement or research project (in Australia or overseas)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study.
RESPONSIBLE RESOURCE DEVELOPMENT

<table>
<thead>
<tr>
<th>Location</th>
<th>St Lucia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>Semester 1</td>
</tr>
<tr>
<td>Mode</td>
<td>Internal/External</td>
</tr>
</tbody>
</table>

**Entry Requirements**

Relevant Bachelor degree (i.e., in a physical, biological or social science), OR the Graduate Certificate in Mineral Resources. Professional experience is highly recommended.

**Indicative semester fees (AUDS)**

- Domestic Students: $12,750
- International Students: $16,640

**Duration**

(Currently PART TIME/DISTANCE ONLY)

- MASTERS: 3 years (#24)
- GRADUATE DIPLOMA: 2 years (#16)
- GRADUATE CERTIFICATE: 1 year (#8)

**PROGRAM OVERVIEW**

The program is designed for both industry professionals seeking to broaden their knowledge base, as well as graduates planning on exploring future career opportunities within the extractive resources sector (i.e. mining, oil and gas). This program will be built around common core courses, which engage directly with the sustainable development agenda at both the Graduate Certificate and Diploma level.

The program structure will give you the opportunity to take courses in one of three fields of specialisation: environment, health and safety, and community relations. Each level of the program builds towards a Master level applied research thesis supervised by researchers from the Sustainable Minerals Institute (SMI).

The program is delivered primarily online, to accommodate professional learners in full-time employment. Core courses may involve a one-week intensive program hosted at the St Lucia campus.

**SPECIALISATION STREAMS**

1. Community Relations (Community Development, Community Engagement, Community Aspects of Resource development, Regional and Local Economic Methods)
2. Environment (Environmental Management in Mining, Vegetation and Habitat Rehabilitation, Water Management in the Minerals Industry, Managing Post-mining Landscapes)

**SAMPLE COURSE PLAN**

Master of Responsible Resource Development - Community Relations (#24)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Sustainable Management in a Minerals Industry Context</th>
<th>Community Development for the Resource Industry</th>
<th>Community Aspects in Resource Development</th>
<th>Community Engagement for the Resource Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Sustainable Development in the Minerals Industry</td>
<td>Community Research Methods for the Resources Sector</td>
<td>Incident and Investigation Analysis</td>
<td>Human Factors in the Minerals Industry</td>
</tr>
<tr>
<td>Year 2</td>
<td>Sem 1</td>
<td>Project or Thesis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
## PETROLEUM ENGINEERING

<table>
<thead>
<tr>
<th>Location</th>
<th>St Lucia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>Semester 1</td>
</tr>
<tr>
<td>Mode</td>
<td>Internal</td>
</tr>
<tr>
<td><strong>Entry Requirements</strong></td>
<td>Entrants to the program will normally have an Honours degree in engineering or a relevant science discipline such as geology, physics, chemistry or mathematics. In addition to the academic qualifications, relevant industrial experience is taken into consideration.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Indicative Semester Fees (AUD$)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Students: $16,640</td>
<td>International Students: $16,640</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Duration (Full-time)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTERS 1.5 years (#24)</td>
<td>GRADUATE DIPLOMA 1 year (#16)</td>
</tr>
<tr>
<td>GRADUATE CERTIFICATE 0.5 years (#8)</td>
<td></td>
</tr>
</tbody>
</table>

### PROGRAM OVERVIEW

The Master of Science (MSc) in Petroleum Engineering is offered jointly by The University of Queensland and the Institute of Petroleum Engineering (IPE) at Herriot-Watt University in the UK. Heriot-Watt University is recognised internationally as a leading centre of excellence in petroleum engineering and petroleum geosciences teaching, training and research with strong links to industry worldwide. The program incorporates lectures and project work, encompassing a wide range of petroleum engineering fundamentals, pertinent to the modern petroleum industry and Australia’s gas industry.

The eight technical courses in the program are delivered in one-week intensive lecture blocks with follow-up tutorial sessions and/or assignments prior to the examination periods. Lecturers in this program include experts from UQ and Heriot-Watt University plus guest lecturers from the oil and gas industry. Courses are hands-on in nature so that you are technically well prepared for, and has a sound knowledge of industrial practices. Project work in the final semester of the program applies ideas and methods to evaluate real oil and gas fields and to design plans for resource development.

### SAMPLE COURSE PLAN

**Master of Science in Petroleum Engineering (#24)**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Sem 1</th>
<th>Geoscience for Petroleum Engineering</th>
<th>Reservoir Engineering</th>
<th>Drilling Engineering</th>
<th>Petroleum Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem 2</td>
<td>Formation Evaluation</td>
<td>Reservoir Engineering - Well Test Analysis</td>
<td>Reservoir Simulation</td>
<td>Production Technology</td>
</tr>
</tbody>
</table>

| Year 2 | Sem 1 | Field Development Project | Engineering Postgraduate Project |

This is a sample course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit [www.uq.edu.au/study](http://www.uq.edu.au/study).
Scholarships are available for outstanding international students in certain categories.

www.eait.uq.edu.au/international-scholarships

EUROPE

50 per cent fee scholarships are available for European students intending to study in one of the following programs:

<table>
<thead>
<tr>
<th>Master of Architecture</th>
<th>Master of Computer Science (Management)</th>
<th>Master of Engineering Science (Management)</th>
<th>Master of Information Technology (Management)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Computer Science</td>
<td>Master of Engineering Science</td>
<td>Master of Information Technology</td>
<td>Master of Interaction Design</td>
</tr>
</tbody>
</table>

CHINA

HATCH and UQ offer $15,000 scholarships for students articulating into UQ's Master of Engineering Science via The University of Queensland's China Partner Program.

LATIN AMERICA

50 per cent fee scholarships are available for Latin American students intending to study in one of the following programs:

<table>
<thead>
<tr>
<th>Master of Architecture</th>
<th>Master of Computer Science (Management)</th>
<th>Master of Engineering Science (Management)</th>
<th>Master of Information Technology (Management)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Computer Science</td>
<td>Master of Engineering Science</td>
<td>Master of Information Technology</td>
<td>Master of Interaction Design</td>
</tr>
</tbody>
</table>

ALL COUNTRIES

UQ is also proud to partner with a number of industry organisations and offer a number of external scholarships, which are available to all students studying at Australian universities. These scholarships include:

- International WaterCentre Water Leader Scholarship  [watercentre.org/scholarships]
- Boeing Engineering Student of the Year  [www.flightglobal.com/student]
- IT Bachelor-Master Package Program Scholarship  [www.itee.uq.edu.au/master-scholarship]
- American Australian Association Fellowships  [www.americanaustralian.org]
- Google Australia Anita Borg Memorial Scholarship  [www.scholarships.uq.edu.au]
- Glencore Xstrata Energy Leader Scholarship  [www.scholarships.uq.edu.au] (Master of Energy Studies only)
In a first for Australian engineering education, UQ Engineering students now have the opportunity to complete multiple internationally recognised degrees during the course of their studies. The Faculty of Engineering, Architecture and Information Technology have established agreements with two institutions, the Écoles Centrales in France and Technical University Munich in Germany, providing students with a unique double degree program and experience.

ÉCOLES CENTRALES
Representing five of France’s elite Grandes Écoles, the engineering schools take a multi-disciplinary approach to their engineering education to produce engineers of a high scientific and technical level with global perspectives. UQ Engineering students have the opportunity to study at UQ and in France to complete the requirements towards a Bachelor of Engineering and Master of Engineering from UQ, as well as a Diplôme d’Ingénieur from the French institution.

TECHNICAL UNIVERSITY OF MUNICH
The Technical University of Munich (Technische Universität München - TUM) provides students with a linked degree program where they will graduate with the integrated Bachelor of Engineering/Master of Engineering from UQ, and a TUM Master of Science in Electrical Engineering and Information Technology degree.

ÉCOLE SUPÉRIEURE D'INFORMATIQUE, ÉLECTRONIQUE, AUTOMATIQUE (ESIEA), FRANCE
Within the framework of the agreement between ESIEA and UQ, UQ Master of Computer Science students have the opportunity to undertake a linked degree by enrolling for a semester in the ESIEA Specialised Master in Network and Information Security program in France.

HERIOT WATT UNIVERSITY
The Master of Science in Petroleum Engineering program is offered jointly by The University of Queensland’s School of Chemical Engineering, Centre for Coal Seam Gas, and the Institute of Petroleum Engineering (IPE) at Heriot Watt University in the UK. Heriot-Watt University are recognised internationally as a leading centre of excellence in petroleum engineering and petroleum geosciences teaching, training and research with strong links to industry worldwide.
IWES is the largest and most successful continuing education program for professionals responsible for industry environmental performance in Australia.

Courses are taught by leading industry practitioners and designed to keep busy professionals abreast of the latest trends, technologies and practices.

IWES is the training provider of choice with several large organisations, and we strive to continue to innovate in our course offerings and delivery.

Upcoming events include IWES Sydney, Melbourne, Dubai, Gold Coast and Perth 2015.
The Faculty offers a growing number of executive education courses, workshops and professional development seminars. Improve your knowledge, currency and skills through enrolment in internationally recognised programs spanning Engineering and Information Technology, all taught by leading academics and industry experts.

We work with industry to develop market specific and customised development programs to further your competitiveness within the market place through high quality, flexible educational programs.

Continuing Professional Development opportunities are delivered in several flexible formats, to meet the needs of busy professionals:

- **Short Courses**: these courses range in duration between one to five days and cover a diverse range of engineering topics, such as Petroleum Engineering, and Public Transport. Participants who complete a short course will receive a certificate of attendance, detailing the number of CPD hours attended.

- **Educational Events**: ranging in length from three to five days, these events offer programs of short courses focused on a specific subject area, such as Water and Wastewater Treatment (IWES), design of sustainable buildings, energy management and power generation.

- **Postgraduate Programs**: Postgraduate qualifications provide you with specialised knowledge and a significant advantage in the employment market. Study at this level enables you to upgrade your qualifications, keep abreast of modern work developments, change careers or enhance your promotion potential. The Faculty’s CPD programs support a number of postgraduate qualifications, providing flexible delivery options and opportunities for participants to engage with industry experts, including the Master of Science in Petroleum Engineering.

For further information on Faculty CPD programs, please contact the Faculty’s CPD Team on +61 7 3346 7870, or email cpd@eait.uq.edu.au or visit:

www.eait.uq.edu.au/executiveeducation
The University of Queensland offers engineering and ICT related research in the following broad categories:

- Aerospace Engineering
- Biological Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Environmental Engineering
- Information and Communications Technology
- Materials Engineering
- Mechanical Engineering
- Mining and Minerals Technology
- Modelling and Simulation of Complex Systems
- Power and Energy Systems
- Water Engineering

DOCTOR OF PHILOSOPHY (PhD)

The Doctor of Philosophy provides training for students interested in career advancement and research. The doctoral thesis provides evidence of a contribution to knowledge with a level of originality consistent with three to four years of full-time study and supervised research training. It also demonstrates a candidate's capacity for critical analysis and that he or she is capable of pursuing scholarly and programmatic research that answers significant questions within a three-to-four year time frame.

Entry requirements
Students require a Bachelor degree with the equivalent of a UQ honours class IIA or higher, which is the standard basis of admission. This must include relevant experience.

Alternate pathways are available to students with at least one year of full time equivalent postgraduate study, or at least two years of documented relevant work experience.

Further Information
www.uq.edu.au/grad-school

RESEARCH ACTIVITIES
FURTHER INFORMATION

Faculty of Engineering, Architecture and Information Technology
Hawken Engineering Building
The University of Queensland
Brisbane Qld 4072
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Email: admin@eait.uq.edu.au
Internet: www.eait.uq.edu.au

School of Chemical Engineering
Don Nicklin Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA
Phone: + 61 7 3365 6195
Email: enquiries@chemeng.uq.edu.au
Internet: www.chemeng.uq.edu.au

School of Civil Engineering
The Advanced Engineering Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA
Phone: +61 7 3365 3619
Email: hos@civil.uq.edu.au
Internet: www.civil.uq.edu.au

School of Information Technology and Electrical Engineering
General Purpose South Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA
Phone: +61 7 3365 2097
Email: enquiries@itee.uq.edu.au
Internet: www.itee.uq.edu.au

School of Mechanical and Mining Engineering
Frank White Building
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Brisbane Qld 4072
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Phone 61 7 3365 3668
Email: enquiries@mechmining.uq.edu.au
Internet: www.mechmining.uq.edu.au

UQ International
JD Story Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA
Phone: (outside Australia) +61 3 8676 7004
(Within Australia) 1800 671 980
Email: study@uq.edu.au
Internet: www.uq.edu.au/study

More information about UQ for International Students, including the study environment, links to estimated living costs, refund policies, support services, information for students with families, and your legal rights as an international student can be found at www.uq.edu.au/international-students

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Phone: +61 7 3365 7932
Email: rhdunit@research.uq.edu.au
Internet: www.uq.edu.au/grad-school

In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.

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