International Students

Master of Energy Studies
Choosing the right postgraduate program and university is a major life decision. At the International Energy Centre (IEC), we give you the option of studying at not one, but three leading universities - The University of Queensland, The University of Western Australia and The University of Newcastle. All three boast rich energy portfolios, while two are in the top 100 universities in the world and are members of the global Universitas 21 Alliance.

As a student enrolled in an IEC postgraduate program, you can tailor your degree and specialisation to suit your interests, while learning from industry and international experts, participating in site visits, industry dinners and networking events across Australia.

A range of scholarships are available to eligible students wishing to undertake the Master of Energy Studies, and I encourage you to explore these scholarship opportunities, including the Glencore Energy Leader Scholarships.

I look forward to welcoming you to our Master of Energy Studies program.

Tim McLennan
CEO International Energy Centre
The Master of Energy Studies (MES) is an innovative program developed by the International Energy Centre (IEC).

The MES is co-taught, co-delivered and co-badged by a network of three leading Australian universities, with extensive industry participation.

The Energy Studies programs are highly interactive and challenging, offering an opportunity for individuals to grow professionally and personally through novel teaching approaches and transdisciplinary learning.

The IEC coordinates the Master of Energy Studies, co-delivered by all three foundation member universities.

Co-taught
The teaching team comprises academics from all three member universities and experienced industry experts. Students learn directly from leading scientists and researchers, and internationally acclaimed practitioners in the energy sector. Guest presentations by industry experts and regular professional events provide valuable networking opportunities.

Co-badged
Graduates receive a co-badged Master of Energy Studies testamur from The University of Queensland, The University of Western Australia and The University of Newcastle.

Co-delivered
Courses are delivered across all member universities, giving students the opportunity to experience campus life at three of Australia’s finest universities and engage with industry across Australia.
FLEXIBLE WORK/STUDY

Intensive Mode of Delivery
Each course is delivered in intensive mode over five consecutive days at one of the three universities around Australia (see map page 7). Students also participate in online tutorials and seminars, with assessment items due in the six weeks following each intensive. This is a successful, flexible mode that fits with work demands and caters to learning needs of students.

TAILOR YOUR STUDIES

Electives
Students have the choice of selecting two electives from a range of available courses for their final two courses before commencing the Professional Project. The electives allow students to focus their learning activities in areas of personal interest, and structure their program to effectively build into the culminating project. Elective courses are run with a minimum of 10 students per course.

PRACTICAL EXPERIENCE

Hands On
Students attend site visits during each intensive teaching block. These visits are crucial for hands on, real-world learning and highlight current energy issues on Australia’s east and west coasts. Students are able to witness the changing role of traditional technologies. Site visits highlight themes such as the changing nature of energy generation, transmission, distribution, end use carbon management, and social licence to operate.

CRystallise COURSEWORK INTO A PROJECT

Professional Projects
The final element of the Masters program includes turning learnings into a project. Students design and undertake project work that consolidates and applies the concepts, principles, and methodologies learned to date. Delivery options include applied research, work placements with host organisations, desktop critical research, and multimedia portfolios. Students are encouraged and supported to use their Professional Projects to further personal goals – whether they relate to engaging with new organisational partners, working in international contexts, or preparing for further academic advancement.

HandS on

MIX OF ASSESsMENTS TO DEVELOP SKILL SET

Assessment
The MES program builds academic and professional capacity through a structured range of assessment types. Students develop skills in a range of areas including technical and research writing, and financial and strategic analysis. Collaborative group work includes researching and solving problem based real-life case studies with varied topics such as vulnerability assessments, adaptation strategies, carbon offset project designs, policy briefs, financial modelling, and technology trade-offs. Assessments in the MES are designed so that students assimilate and apply knowledge, assume a leadership role and work in multicultural and transdisciplinary teams.
ORIENTATION WORKSHOP

Students attend a two-day orientation workshop in Gladstone, Queensland in February prior to first intensive. The workshop establishes the context for the MES program, clarifies students’ basic knowledge and understanding, introduces transdisciplinary approaches and systems thinking, and builds team work and communication skills. Importantly, the workshop enables each new cohort to establish a foundation for supportive and collaborative working relationships.

STUDENTS TRAVEL TO ALL 3 UNIVERSITIES

Each intensive course has a set location in one of the three universities.

PROFESSIONAL NETWORK OPPORTUNITIES

Each course is complemented with a networking event. Students gain access to high-level industry figures and engage with diverse professionals. Meeting and discussing current and emerging issues with representatives from a range of organisations provides valuable networking opportunities that are a central feature of the program design.

LEADERSHIP SERIES

A cross-cutting program aimed at developing skills integral to the professional practice of energy leaders. Each course includes a tailored professional leadership component to build personal and professional leadership, skills and talents.

STUDENT SUPPORT

Although the program is delivered by all member universities, MES students are enrolled at The University of Queensland (UQ) St Lucia campus. You can therefore take advantage of the wide range of services and facilities that UQ offers students, including the UQ Library.

“The MES is unique in the sense of relating energy directly to different fields of knowledge.”

Rodrigo Jovel
MES Candidate
El Salvador
WHAT YOU WILL STUDY

Master of Energy Studies students complete six (6) foundation courses, choose two (2) electives and complete the Professional Project. Students undertaking the Graduate Certificate complete (4) foundation courses only. Graduate Diploma students complete six (6) foundation courses and two (2) electives only.

FOUNDATION COURSES

ENGY7000: Energy and Technology Principles
A broad perspective of energy systems from generation and transmission to end use. Students are introduced to the key scientific principles that underpin energy generation. Students develop an understanding of topics related to sources of energy and power generation, including supply and demand and future scenarios for 2050, and the operation of energy markets. Students will gain a comprehensive understanding of the suite of energy and technology options available. Location: The University of Queensland, St Lucia, Brisbane.

ENGY7001: Climate Science and Policy
Overview of the physical science of climate change, with discussion of climate models, projections, and impact scenarios. International policy frameworks for climate change are introduced, with discussion of climate change politics and psychology. The course also examines local impacts and planning responses to climate change effects. Students will gain an understanding of mitigation responses, vulnerability assessment, and adaptation strategies for organisations and communities. Location: The University of Newcastle, Newcastle and Sydney.

ENGY7002: Issues of Global Change
This course explores issues of energy and development, including equity, resources, population, and consumption; conflict, security, and migration; social impact assessment and social engagement; indigenous people and traditional cultures; and gender. Students will develop their understanding of international policy mechanisms and legal frameworks, and build skills in community engagement for energy development. Location: The University of Western Australia, Perth.

ENGY7003: Low Emission Technologies and Supply Systems
Students analyse current and emerging technology options to manage and reduce energy consumption, improve efficiency and mitigate climate change. Key power generation and low emission technologies and their challenges, risks and associated supply systems will be examined, including renewable energy options, electricity storage and micro-grids, carbon capture and storage (CCS), gas, cogeneration and oil production. The course provides students with an advanced understanding of the numerous technologies and supply systems. Location: The University of Newcastle, Newcastle.

ENGY7004: Advanced Energy Investment and Development Appraisal
The theme of this course is investment decision-making under uncertainty. Students will gain advanced understanding of key financial concepts including cash flows, costs of debt and equity, and rates of return. Real options analysis will extend these core concepts, and students will develop skills in Visual Basic as a tool for options evaluation. This course incorporates extensive group work activities to explore and build applied practical skills. Location: The University of Queensland, St Lucia, Brisbane.

ENGY7005: Economics and Finance of Energy
This course provides students with an in-depth knowledge of the factors that govern a company’s exposure to the financial and economic aspects of climate change and carbon and energy management. Some topics covered include project appraisal, methods for evaluating non-financial costs and benefits, and oil and gas sector economics (at macro and micro levels). The course also introduces concepts of carbon lock-in and issues of investment risk. Location: The University of Western Australia, Perth.

ENGY7107: Economics and Finance of Energy
This course provides students with an in-depth knowledge of the factors that govern a company’s exposure to the financial and economic aspects of climate change and carbon and energy management. Some topics covered include project appraisal, methods for evaluating non-financial costs and benefits, and oil and gas sector economics (at macro and micro levels). The course also introduces concepts of carbon lock-in and issues of investment risk. Location: The University of Western Australia, Perth.

ENGY7006: Environmental Science and Policy
Overview of the physical science of climate change, with discussion of climate models, projections, and impact scenarios. International policy frameworks for climate change are introduced, with discussion of climate change politics and psychology. The course also examines local impacts and planning responses to climate change effects. Students will gain an understanding of mitigation responses, vulnerability assessment, and adaptation strategies for organisations and communities. Location: The University of Newcastle, Newcastle and Sydney.

Key Learnings

Graduates of MES will gain knowledge of energy in a multidisciplinary setting.

Have a look at the learning matrix to see which disciplines are covered by the courses.

Learnings Matrix

Find out more:
internationalenergycentre.com/education/mes
ELECTIVE COURSES

Elective courses require a minimum of 10 enrolments.

**ENGY7200: Business Strategy and Innovation Management**

This course develops advanced business management skills in the areas of strategy analysis, formation, and implementation. Principles of managerial finance, corporate carbon mitigation, and risk management strategies are applied through case studies and interactive activities. The course focuses heavily on innovation management, from theory to practice, and students are engaged with industry practitioners in emerging areas of sustainable energy.

**Location:** The University of Western Australia, Perth.

**ENGY7201: Energy for Development**

This course explores the relationships between energy, poverty, and development with a focus on developing country contexts. Topics include barriers to energy access and affordability, critical perspectives on sustainability and development principles, and enabling policy frameworks. Building on previous knowledge and skills delivered in foundation MES courses, the course fosters targeted knowledge of international and local finance instruments and business models, and develops advanced skills in participatory engagement, finance management, and life cycle analysis.

**Location:** The University of Queensland, St Lucia, Brisbane.

**ENGY7300: Advanced Energy Systems**

In this course students learn how to comprehensively map an energy system from the facility level to network scale, and identify efficiency opportunities in thermal, electrical, and other utilities. The course includes generation, transmission, and distribution, and also covers important emerging areas including power from waste streams and nano-tech energy.

**Location:** The University of Newcastle, Newcastle.

**ENGY7301: Energy Efficiency Opportunities**

This course investigates the role that energy efficiency and low carbon solutions can play in reducing energy consumption and greenhouse gas emissions. Some topics covered include energy efficiency and conservation, sustainable energy use, smart grids, metering, the psychology of energy consumption, non-price barriers, regulatory drivers and public policy interventions.

**Location:** The University of Queensland, St Lucia, Brisbane.

PROFESSIONAL PROJECT

**ENGY7115: Professional Project**

Students design and undertake self-directed project work that consolidates and applies the concepts, principles, and methodologies developed through the program. Students are strongly encouraged to anchor their project on a focal issue of personal or professional development interest. The project will address a current, emerging, or forecast challenge facing the energy sector, or an energy related challenge in other professional contexts (e.g. finance, policy, technical, communications). Professional Projects can be conducted with organisational hosts, and bring integrated stakeholder and disciplinary viewpoints to bear to maximise beneficial outcomes. Students must negotiate the scope and outcomes of the project with IEC prior to commencing work. Academic advisors and industry practitioners are engaged to provide professional support through the project.

Four delivery options are available as follows:

- applied research
- professional placement
- desktop research project
- multi-media project

The final reports for Professional Projects are equivalent to a 14000 word Masters thesis.

"IEC’s continuing focus on the practical application of global best practice methodologies will ensure that students are well prepared for the unique challenges that lie ahead within this highly dynamic industry."

John Revie  
General Manager | UK/Europe  
Swann Gobal

Duration

**Full-time and Part-time**

The full-time MES program is taught over three semesters (a year and a half) with a study load of four courses per semester.

The part-time MES program is taught over six semesters (three years) with a study load of two courses per semester. Both delivery modes are available to Australian and New Zealand citizens and Australian permanent residents. Students can conduct their final Professional Projects in Australia or overseas (scholarship and visa conditions permitting).

MES Course Outline

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGY7000 #2 units</td>
<td>ENGY7001 #2 units</td>
<td>Year 1</td>
</tr>
<tr>
<td>ENGY7007 #2 units</td>
<td>ENGY7004 #2 units</td>
<td></td>
</tr>
<tr>
<td>ENGY7107 #2 units</td>
<td>Elective #2 units</td>
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</tr>
<tr>
<td>Elective #2 units</td>
<td>Elective #2 units</td>
<td></td>
</tr>
<tr>
<td>Professional project #8</td>
<td></td>
<td>Year 2</td>
</tr>
</tbody>
</table>

**Full-time**

**Semester 1**

ENGY7000 #2 units  
ENGY7007 #2 units

**Semester 2**

ENGY7001 #2 units  
ENGY7004 #2 units  
Elective #2 units

**Year 1**

**Year 2**
LOGISTICS

View the table to check what is covered by program fees and what are students required to organise and pay.

<table>
<thead>
<tr>
<th>Covered by Program Fees</th>
<th>Students to Pay &amp; Organise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td></td>
</tr>
<tr>
<td>Course Materials</td>
<td></td>
</tr>
<tr>
<td>Flight from Brisbane to Gladstone Orientation Weekend</td>
<td>✔</td>
</tr>
<tr>
<td>Accommodation in Gladstone</td>
<td>✔</td>
</tr>
<tr>
<td>Site visits</td>
<td></td>
</tr>
<tr>
<td>Networking Dinners as part of Intensives</td>
<td>✔</td>
</tr>
<tr>
<td>Networking Events as part of Intensives</td>
<td>✔</td>
</tr>
<tr>
<td>Accommodation near campus for Intensives*</td>
<td>✔</td>
</tr>
<tr>
<td>Transfers from airport to accommodation for Intensives</td>
<td>✔</td>
</tr>
<tr>
<td>Flights to Intensives</td>
<td>✔</td>
</tr>
</tbody>
</table>

*if not your home city.

Locations
The MES is delivered at all three of the IEC’s member universities. Students travel interstate to complete intensive teaching blocks.
STUDY OPTIONS

The IEC offers several study opportunities for professionals wishing to take the next step in their careers.

Each program is designed to strategically address challenges posed by a carbon-constrained economy, and position candidates to take on advanced management and leadership roles. Applicants come from a wide range of backgrounds including law, finance, engineering, science, economics and policy.

Master of Energy Studies

The MES program is aimed at professionals looking to obtain a unique qualification that prepares them to strategically address the challenges posed by a carbon-constrained economy, positioning them to take on management and leadership roles in a field of growing importance.

Each program pursues a transdisciplinary approach in order to expose students to science and technology, business management, policy and economics in the context of clean energy generation and carbon management.

Pathways to MES

Professionals can progress to the MES and begin with a Graduate Certificate or Graduate Diploma.

Early exit and entry options

To complete the MES students are required to obtain 24 credit units. Based upon course selection, students may be able to exit with:

- Graduate Certificate in Energy Studies (#8)
- Graduate Diploma in Energy Studies (#16)

Graduate CERTIFICATE of Energy Studies

For professionals wishing to extend their knowledge looking for a shorter program. This is a good basic start and students wishing to continue can utilise the Graduate Certificate to apply into the Graduate Diploma in Energy Studies.

Graduate DIPLOMA of Energy Studies

For professionals wishing to develop their careers but not ready to undertake full postgraduate study, the Graduate Diploma is an excellent option. Students wishing to continue their study can utilise the Graduate Diploma to apply into the Master of Energy Studies.

<table>
<thead>
<tr>
<th></th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Master's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Courses</td>
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<td>8</td>
<td>8 + 1 Project</td>
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<tr>
<td>Study Units</td>
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<td>16</td>
<td>24</td>
</tr>
<tr>
<td>Networking Opportunities</td>
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<td>8</td>
<td>8</td>
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<tr>
<td>Part-time Option</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Intensive Mode</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Travel to Each Campus</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Internationally Recognised</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Orientation Weekend</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Electives</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Professional Project</td>
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<td>✓</td>
<td></td>
</tr>
<tr>
<td>Scholarship Available</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
How to Apply

1. Check that you meet the entry requirements and deadlines
   - Collect all supporting documents.
   - Applications must include current IELTS results. Applicants require an IELTS overall score of 6.5.
   - For more information contact the IEC:
     www.internationalenergycentre.com/contact

2. Apply
   - Download, print and complete the International Application form:
     www.uq.edu.au/study/forms/international/InternatGradCourseworkAppForm.pdf
   - Include with your application:
     • Certified copies of all transcripts of results, award certificates, grading systems and translations
     • Proof of English Language proficiency (if required)
     • Payment of the AUS$100 Application Fee (if you are not applying for a UQ scholarship)
     • Please remember to sign the form
   - Option 1: apply by email
     Scan and attach all required documents. Email your complete application to: applicationstatus@uq.edu.au
   - Option 2: apply by post
     If you do not have internet access, please contact UQ International Admissions for an application form:
     Phone: +61 7 3365 7941
     Fax: +61 7 3365 1794
     Address: International Admissions, Level 2, JD Story Building, The University of Queensland, St Lucia, Queensland 4072, Australia
   - Option 3: apply through UQ’s official representatives
     Find a list with all UQ’s official international representatives here:
     www.uq.edu.au/international/edureps

3. Accept your offer
   - If you meet all the entry requirements for acceptance into the Master of Energy Studies, UQ will send you an Agreement and Response of Offer (ARO) by email. Fill it out and send it back to UQ, along with the tuition fee deposit and Overseas Student Health Cover (OSHC) payment. Please be aware that you may be required to send additional documentation to satisfy conditions.

4. Confirm your enrolment
   - Once UQ receives your ARO and payment, and provided you have met all conditions required, UQ will issue you with a Confirmation of Enrolment (CoE), as well as information on what you need to do next and a list of important dates.

5. Apply for an international student visa
   - Use your CoE to apply for a student visa via an Embassy, High Commission or the Department of Immigration and Citizenship (contact details can be found at www.immi.gov.au/contacts), and make travel arrangements.

More information
- For more details about how to apply, contact us:
  www.internationalenergycentre.com/contact

Application Status
- All applications are assessed by UQ.
- Any queries regarding eligibility and requirements should be addressed to UQ:
  - Online Enquiries: www.uq.edu.au/international/enquiry
  - Phone (outside Australia): + 61 3 8676 7004
  - Email: study@uq.edu.au

To enquire about the progress of your application, please email applicationstatus@uq.edu.au

Include your full name, date of birth, the date you submitted your application and your UQ student identification number (ID), if available for application enquiry.

Applying for a visa
- All international students applying to study in Australia must have a student visa.
- Application and processing of student visas can take up to six months and there is also an application fee. It is your responsibility to ensure that your visa is granted and you have sufficient time in which to make travel and living arrangements prior to the commencement of your studies.
  www.uq.edu.au/international-students/svp

Overseas Student Health Cover (OSHC) fees
- Overseas Student Health Cover (OSHC) is insurance that covers basic medical and hospital care costs that you may need when you are in Australia.
- You must have OSHC if you have a student visa and can get it from any government-approved OSHC provider. OSHC only covers you from the time you arrive in Australia and so you may also need travel insurance while in transit.
- UQ’s preferred OSHC provider is OSHC Worldcare and the University can accept payment on their behalf. Your Letter of Offer will show the OSHC Worldcare fee for visa-length cover of OSHC, along with the program deposit amount which is part of the tuition fees. When you have paid the deposit, and signed and returned the Agreement and Response to Offer (ARO), your Confirmation of Enrolment (CoE) will show that the OSHC has been paid and this will satisfy the student visa application requirements.

Want to know more?
- +61 7 3014 0250
- info@energycentre.com
- internationalenergycentre.com
- company/international-energy-centre
- InternationalEnergyCentre
- IntEnergyCentre

Want to know more?
1. Important dates

The program commences in Semester 1 each year. There is no mid-year intake.
- Semester 1: February - June
- Semester 2: July - November

2016 Dates: Orientation 12 February 2016
ENGY7000 15 February 2016

2. Program costs

Full-time (4 courses over 3 semesters): AU$ 16,080 per semester

Note: The University of Queensland reviews tuition fees each year and these fees are subject to change. New annual fees apply to all students. www.uq.edu.au/study/fees.

Fees include:
1. accommodation during 5-day intensive blocks (if not in home city)
2. cost of site visits during 5-day intensive blocks
3. cost of industry dinners and networking events
4. course materials (e.g. learning guides, module readers)
5. networking opportunities with energy industry professionals

Please note: flights and travel to and from the airport are not included in tuition fees.

Students must make their own travel arrangements to attend each intensive teaching block in Brisbane, Newcastle or Perth.

3. Entry requirements

- An undergraduate degree from an internationally-recognised institution
- Three to five years practical experience in a related field
- English language skills as demonstrated by an officially recognised test of English language proficiency (e.g. TOEFL or IELTS)

4. Application dates

Closing dates for international applicants to commence study in Semester 1:
- Category 1 and 2 countries: 15 November the year prior to commencement
- Category 3 and 4 countries: 15 October 2013 the year prior to commencement

To see which category your country belongs to, please visit Australia’s Department of Immigration and Citizenship website:

www.immi.gov.au

International students should allow time to organise a student visa, which could take up to six months.

5. Services for students

As a MES student you are enrolled at The University of Queensland (UQ) St Lucia campus. Although the program is co-taught, co-badged and co-delivered by all member universities. You can therefore take advantage of the wide range of services and facilities that UQ offers students:

www.uq.edu.au/services/st-lucia

Further information for international students, including study environment, links to estimated living costs, accommodation, refund policies, support services, information for students with families and your legal right as an international student:

www.uq.edu.au/international-students
www.uq.edu.au/international-guide/
www.uq.edu.au/international-students/internationalstudents-and-their-families
Scholarships

A range of local and international scholarships are available to students wishing to study the MES.

Visit our website for more information on scholarships available to international students. Remember to also check with your home governments for other scholarships.

Australia Awards

Australia Awards Scholarships are long term development awards administered by AusAID (Australian Government). They provide opportunities for people from developing countries to undertake full-time undergraduate or postgraduate study at participating Australian universities. In return, Australia Awards Scholarships recipients are expected to go back to their home country upon completion of their studies to contribute to their country/region’s development.


Information on this and other scholarship opportunities:
internationalenergycentre.com/education/mes/scholarships

Australia is a young, vibrant and friendly country. A country

Study in Australia

in which students can live, learn and grow. Lecturers will encourage you to think of original, practical solutions to real-world problems. The Australian education system has a strong international reputation and is known for its effective structure, innovative teaching methods, and learning experiences. Australian qualifications are recognised throughout the world.

Living in Brisbane

As a Master of Energy Studies student you will be based in Brisbane, Queensland.

With its pleasant climate, diverse scenery, and booming economy, Queensland is a hub for investment and innovation. Brisbane draws great strength from its education sector – boasting world-class universities, outstanding technical and trade programs and comprehensive primary and secondary schooling. Brisbane’s fully-integrated public transport network offers a cost-effective option for road, rail and river travel. Additionally, Australia’s medical infrastructure and healthcare systems are world class. Across Australia, Brisbane is known as a lifestyle destination – a place where business and pleasure easily work in tandem under sunlit skies.

Helpful links:

www.studyinaustralia.gov.au
www.studybrisbane.com.au
www.qld.gov.au
www.tq.com.au


Information on this and other scholarship opportunities:
internationalenergycentre.com/education/mes/scholarships

Australia is a young, vibrant and friendly country. A country

Images: courtesy of Brisbane Marketing
Master of Energy Studies
Leaders for a low carbon world
The University of Queensland
The University of Western Australia
The University of Newcastle

CRICOS Codes
The University of Queensland: 00025B
Master of Energy Studies: 073664E
Program code: 5512

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