



**WECP**

WORLD ENERGY CITIES PARTNERSHIP

# **Education Committee Directory 2017**

**Higher Education and Vocational Programs**



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**Angola**

**Luanda**

## **Agostinho Neto University**

**Website:** <http://www.uan.ao/en/research-centers/lesra/>

**Description:** This R&D framework has been created within the framework of the actions of the UNESCO UNITWIN Chair on “Chemical and Environmental Engineering”, which is part of the UNITWIN Chair “Established at the Faculty of Engineering of Agostinho Neto University on April 22, 1997 on the initiative of the group of European Universities of Santander. This Chair was in force until March 2016.

# Australia

## Perth

### North Metropolitan TAFE - The CUT mine (Central Underground Training)

**Contact:** Peter Ebell - Executive Director, Engineering, Resources and Construction

**Email:** [executive.team@central.wa.edu.au](mailto:executive.team@central.wa.edu.au)

**Website:** [https://www.central.wa.edu.au/Campus\\_Facilities/Pages/CUT-mine.aspx](https://www.central.wa.edu.au/Campus_Facilities/Pages/CUT-mine.aspx)

**Description:** The CUT Mine is a pioneering learning resource and the only facility of its kind in Western Australia. The unique underground mine situated in the heart of 25 Aberdeen Street, Northbridge building takes training to a new level, providing students with 'real' hands on experience in underground mining.

In the simulated mining environment, students are trained in mine safety, geology and face mapping techniques.

### University of Western Australia (UWA) Energy and Minerals Institute (EMI)

**Contact:** Mark Stickells - Director

**Email:** [mark.stickells@uwa.edu.au](mailto:mark.stickells@uwa.edu.au)

**Website:** <http://www.emi.uwa.edu.au/>

**Description:** The EMI provides a gateway to UWA's expertise, high-tech infrastructure and collaborations. It develops programs across three broad themes:

- Natural gas: Developing a global transition fuel
- Remote operations: Technology and innovation driving productivity
- In The Zone: International and regional development

# Canada

## Halifax

### Dalhousie University - Petroleum/Oil & Gas Engineering

**Contact:** Dr. Adam Donaldson - Graduate Coordinator

**Email:** [adam.donaldson@dal.ca](mailto:adam.donaldson@dal.ca)

**Website:** [https://www.dal.ca/academics/graduate\\_programs/petroleum-engineering.html](https://www.dal.ca/academics/graduate_programs/petroleum-engineering.html)

**Description:** Petroleum Engineering at Dalhousie is viewed as a specialized professional discipline focused on the fundamental knowledge and skills associated with the production, transport and processing of petroleum products. The Faculty of Engineering at Dalhousie University offers challenging new education and research programs focused on Atlantic Canada's oil and gas industry. These programs are supported by expertise, experience and resources from all of the Faculty's departments. They reflect a broad vision of "oil and gas engineering" as an integrated endeavor based upon concepts, principles and techniques from all professional engineering disciplines. integrated management large ocean management areas.

### Dalhousie University - Masters of Marine Management

**Contact:** Dr. Claudio Aporta - Director of Marine Affairs Program

**Email:** [claudio.aporta@dal.ca](mailto:claudio.aporta@dal.ca)

**Website:** <https://www.dal.ca/academics/programs/graduate/mmm.html>

**Description:** The Marine Affairs Program offers the Master of Marine Management degree to students with a strong academic record who are planning a career path in marine affairs and have an interest in climate change, public and private sector management, conservation science, planning, public service, engineering, community organizing or public policy. Visit the Program Details page to find out more.

## Halifax (continued)

### Nova Scotia Community College - Marine Engineering Technology

**Contact:** Patsy MacDonald - Registrar

**Email:** [nautical@nscc.ca](mailto:nautical@nscc.ca)

**Website:** [http://www.nscc.ca/learning\\_programs/programs/plandescr.aspx?prg=METD&pln=METECHDIP](http://www.nscc.ca/learning_programs/programs/plandescr.aspx?prg=METD&pln=METECHDIP)

**Description:** The program offers a comprehensive course load complete with advanced training modules and techniques. You build a broad-based knowledge of highly complex engineering systems of a modern ship. You study the major principles of mechanical and hydraulic machinery, electrical systems, naval architecture and ship construction instrumentation and control systems, computer and information technology and then put the theory to work in the operation of a state-of-the-art propulsion plant simulator. Safety training is covered through the campus Fire Fighting and Boat Facilities.

### Nova Scotia Community College - Marine Industrial Rigging

**Contact:** Patsy MacDonald - Registrar

**Email:** [it.info@nscc.ca](mailto:it.info@nscc.ca)

**Website:** [http://www.nscc.ca/learning\\_programs/programs/plandescr.aspx?prg=MIRG&pln=MARINDRIG](http://www.nscc.ca/learning_programs/programs/plandescr.aspx?prg=MIRG&pln=MARINDRIG)

**Description:** In this program, you develop the skills and knowledge you require to work safely with rigging and hoisting with a high degree of accuracy in construction, industrial and marine settings. You learn to fabricate, inspect, install and repair rigging slings and equipment used to lift and move machinery or other heavy objects within marine and industrial environments. After you complete this program and pending completion of further certification, you're able to operate heavy workplace machinery (e.g., forklift, personnel lift and, with supervision, electric overhead crane, boom truck and mobile crane).

## St. John's

### College of the North Atlantic - Office of Applied Research

**Contact:** Mohammad Iqbal - Chair of Applied Research

**Email:** [ar@cna.nl.ca](mailto:ar@cna.nl.ca)

**Website:** <http://www.cna.nl.ca/Research-And-Innovation/>

**Description:** Office serves as one of the college's main points of contact for industry, government, and community groups interested in research collaborations and outreach activities. Offers a research environment that is both intimate and expansive, one in which faculty are engaged in innovative ideas that, in some cases, are locally focused, while others have global reach and many are interdisciplinary in nature.

### College of the North Atlantic - School of Engineering Technology

**Contact:** Brent Howell - Dean of Engineering Technology and Natural Resources

**Email:** [brent.howell@cna.nl.ca](mailto:brent.howell@cna.nl.ca)

**Website:** <https://www.cna.nl.ca/Programs-Courses/All-Programs.aspx?school=Engineering+Technology>

**Description:** Newfoundland and Labrador's public college with 17 campus locations throughout the Province, and operates a technical education college for the State of Qatar in the Middle East. Offering 100 full-time program offerings and more than 300 part-time courses for some 25,000 students each year. Offers Engineering Technology Diploma Programs.



## St. John's (continued)

### Memorial University of Newfoundland (Engineering)

**Contact:** Dr. Leonard Lye - Associate Dean, Graduate Studies

**Email:** [engrdoffice@mun.ca](mailto:engrdoffice@mun.ca)

**Website:** [https://www.mun.ca/engineering/graduate/programs/oil\\_gas/](https://www.mun.ca/engineering/graduate/programs/oil_gas/)

**Description:** The Faculty of Engineering and Applied Science at Memorial University offers course-based and thesis-based graduate programs leading to a Master of Applied Science (MASc), Master of Engineering (MEng), or Doctor of Philosophy (PhD) in Oil and Gas Engineering. Also offers premier undergraduate programs in Civil, Computer, Electrical and Mechanical engineering.

### Memorial University of Newfoundland

**Contact:** Dr. Ray Gosine - Vice-President (Research) Pro Tempore

**Email:** [vp.research@mun.ca](mailto:vp.research@mun.ca)

**Website:** <http://www.mun.ca/research/>

**Description:** Memorial University has a vibrant culture of creativity and innovation that is reflected in the research activities of our scholars and researchers. Memorial is recognized for its rich record of engagement with community partners and research collaborators, in Newfoundland and Labrador and around the world.



## St. John's (continued)

### National Research Council - Ocean, Coastal and River Engineering (NRC/OCRE)

**Contact:** Terry Lindstrom - General Manager

**Email:** [Terry.Lindstrom@nrc-cnrc.gc.ca](mailto:Terry.Lindstrom@nrc-cnrc.gc.ca)

**Website:** <http://www.nrc-cnrc.gc.ca/eng/rd/ocre>

**Description:** NRC Ocean, Coastal and River Engineering (NRC OCRE) supports a broad cross section of industry sectors by developing creative and practical solutions to engineering challenges in rivers, lakes and marine environments. NRC OCRE offers specialized consulting and applied research services in ocean engineering, coastal engineering, solutions for water resources management, marine safety standards and technologies, as well as marine renewable energy assessments and technology.

### Petroleum Research Newfoundland and Labrador

**Contact:** David Finn - COO

**Email:** [dave.finn@petroleumresearch.ca](mailto:dave.finn@petroleumresearch.ca)

**Website:** <http://www.pr-ac.ca/>

**Description:** Research facilitation and management for Newfoundland and Labrador's offshore industry. Petroleum Research is a federally-incorporated, not-for-profit organization that facilitates and funds research and development on behalf of Newfoundland and Labrador's offshore oil and gas industry. Petroleum Research is a member-based organization that identifies research and technology development opportunities that deliver value to its oil and gas industry participants.

## St. John's (continued)

### Research & Development Corporation of Newfoundland and Labrador

**Contact:** Mark Ploughman - Acting Chief Executive Officer

**Email:** [info@rdc.org](mailto:info@rdc.org)

**Website:** <http://www.rdc.org/>

**Description:** RDC is a provincial Crown Corporation established to strengthen the focus, quantity, quality, and relevance of R&D for the long-term economic benefit of Newfoundland and Labrador. RDC invests in projects that support highly-qualified people, world-class infrastructure and cutting-edge research. RDC delivers applied R&D services needed by businesses, to help them solve their technical challenges right here in Newfoundland and Labrador. To maximize the economic impact of investments, RDC targets the priority sectors of energy, mining/minerals and ocean technology given the province's competitive advantages in those sectors, while also investing in projects in other sectors that will deliver a positive economic impact.

## China

### Dongying

#### China University of Petroleum Shengli College

**Contact:** Yinxun Suo - Office Director

**Email:** [suoyinxun@163.com](mailto:suoyinxun@163.com)

**Website:** <http://www.slcupc.edu.cn>

**Description:** China University of Petroleum Shengli College is a full-time undergraduate college approved by the State Ministry of Education, which is run cooperatively by China University of Petroleum and the large state-owned enterprise Shengli Petroleum Administration Bureau as well as the Government of Dongying City.

## Dongying (continued)

### China University of Petroleum Shengli College

**Contact:** Yinxun Suo - Office Director

**Email:** [suoyinxun@163.com](mailto:suoyinxun@163.com)

**Website:** <http://www.slcupc.edu.cn>

**Description:** China University of Petroleum Shengli College is a full-time undergraduate college approved by the State Ministry of Education, which is run cooperatively by China University of Petroleum and the large state-owned enterprise Shengli Petroleum Administration Bureau as well as the Government of Dongying City.

### Dongying Vocational Institute

**Contact:** Meng Die (Tina) - Minister of International Exchanges Ministry

**Email:** [41708831@qq.com](mailto:41708831@qq.com)

**Website:** <http://www.dyxy.edu.cn/>

**Description:** Established in July, 2001, Dongying Vocational Institute is a nationally recognized key vocational institute and Shandong Provincial Demonstrative Vocational Institute. The institute covers an area of 1902 mu with construction area of 401300 square meters and teaching equipment worth of 139 million RMB. It has 804 faculty and staff, of which 591 are full-time teachers. It has established resource pool of 810 part time teachers of different industries and enterprises. It has 52 majors of 8 secondary schools with 18,200 current registered students.

## Karamay

### China National Petroleum Corporation Xinjiang Training Center (Xinjiang Technician College)

**Contact:** Jinli Zhang - Principal

**Email:** [zhangjl2@petrochina.com.cn](mailto:zhangjl2@petrochina.com.cn)

**Website:** <http://www.xjyt.petrochina/sites/jspxy/default.aspx>

**Description:** China National Petroleum Corporation Xinjiang Training Center (Xinjiang Technician College) was founded in 1979 and it was awarded the title of the "Xinjiang high-skilled talent training base" by the department of Human resources and social security of Xinjiang Uyghur autonomous region. The College has 600 fulltime and part time teachers, including 223 full-time teachers, 38 senior lecturer, 150 teaching fellows. Currently the college has 9 kinds of training programs, including oil engineering, electrical engineering, mechanical processing, road transportation, construction, green property management, safety engineering, physical and mental health, comprehensive management training program. The college has a training base, covering an area of 650000 square meters, a total construction area of 111000 square meters, 28 training workshops and 4 outdoor training ground.

## Karamay (continued)

### Karamay Vocational & Technical College

**Contact:** Wang He - College President

**Email:** [wanghe@klmy.gov.cn](mailto:wanghe@klmy.gov.cn)

**Website:** [www.kzjsxy.net](http://www.kzjsxy.net)

**Description:** Karamay Vocational & Technical College was founded in 1956. The college focuses on engineering and liberal arts. It is a director unit of Xinjiang petroleum and petrochemical vocational education zone. In 2010, the college is approved as the National Demonstrative Vocational College by China Ministry of Education and Ministry of Finance. College runs with petroleum, petrochemical and other ten major categories of 43 professions. There are over 6000 students. Annual training company employees more than 2000 people. The college has abundant qualified teachers with 6 Excellent Autonomous Region Teaching Teams. The college owns advanced and complete experiment and training facilities. There are 29 training workshops and 124 campus experiments, training rooms; at the same time, there are 91 out-campus practice training bases, which can meet the needs of students skill training. The college was awarded as the "oil and chemical industry vocational education and the national demonstration training base" by China Petroleum and Chemical Industry Federation, China Chemical Education Association.

# Norway

## Stavanger

### University of Stavanger

**Contact:** Dr. Oystein Lund Bo - Dean

**Email:** [oystein.l.bo@uis.no](mailto:oystein.l.bo@uis.no)

**Website:** <http://www.uis.no/faculties-departments-and-centres/faculty-of-science-and-technology/>

**Description:** The Faculty of Science and Technology has about 2000 students and 200 employees. The curriculum focuses especially on engineering disciplines, while research activities are characterized by innovation and collaboration with industry and government.

# South Africa

## Cape Town

### University of Cape Town - Energy Research Centre

**Contact:** Bongeka Matubatuba - Secretary

**Email:** [bongeka.matubatuba@uct.ac.za](mailto:bongeka.matubatuba@uct.ac.za)

**Website:** <http://www.erc.uct.ac.za/education/prospective/masters>

**Description:** UCT, through the Energy Resource Centre offers: MSc in Sustainable Energy Engineering and MPhil in Energy and Development Studies.



# United Kingdom

## Aberdeen

### North East Scotland College

**Contact:** Liz McIntyre - Principal

**Website:** [www.nescol.ac.uk](http://www.nescol.ac.uk)

**Description:** Further education and vocational college offering a wide range of post-school education including engineering and technology disciplines

### Robert Gordon University

**Contact:** Professor Ferdinand von Prondzynski - Principal

**Website:** [www.rgu.ac.uk](http://www.rgu.ac.uk)

**Description:** The Oil & Gas Centre is located in RGU's stunning new Sir Ian Wood Building with state of the art facilities and is home to our fantastic DS-6000 drilling simulator, a joint venture between RGU and our partner the Aberdeen-based international Drilling Contractor KCA Deutag. Our courses are designed for those wishing to convert to the oil and gas industry or to specialize in specific vocational areas to improve their career prospects. The Oil & Gas Centre is directed and staffed by seasoned industry professionals and academics, and maintains extensive close contacts with industry to make sure you have the best opportunity for a successful career in oil and gas engineering. In addition to training individual Engineers to the highest standards, we also partner directly with many of the biggest operators and service companies to up-skill their existing Engineering resource.



## Aberdeen (continued)

### University of Aberdeen

**Contact:** Sir Ian Diamond - Principal

**Email:** [ian.diamond@abdn.ac.uk](mailto:ian.diamond@abdn.ac.uk)

**Website:** [www.abdn.ac.uk](http://www.abdn.ac.uk)

**Description:** University offering degree and higher level courses / research in a wide range of subject areas. Specialisms include oil and gas innovation and sub-sea research: <http://www.abdn.ac.uk/oceanlab/>.

## United States

### Houston

#### Energy Institute High School

**Contact:** Lori Lambropoulos - Principal

**Email:** [llambrop@houstonisd.org](mailto:llambrop@houstonisd.org)

**Website:** <http://www.houstonisd.org/Domain/644>

**Description:** The Energy Institute High School is focused on preparing High School students for careers in the energy field.

## Houston (continued)

### MIAT College of Technology

**Contact:** Michael Reeve

**Email:** [MReeve@miat.edu](mailto:MReeve@miat.edu)

**Website:** <http://www.miat.edu/campuses/houston-texas/>

**Description:** The Energy Programs from MIAT College of Technology provide the hands-on training, practical experience and industry support it takes to pursue a rewarding technical career. Classes are interactive and led by industry professionals with years of experience working in the field. You'll get the one-on-one attention and personal support to pick up new skills quickly and the first-hand technical knowledge to feel confident entering the workforce.

### Houston Community College, Petroleum Engineering Technology, Global Oil and Gas Drilling Training Center, and Welding Technology

**Contact:** Morteza Sameei - Director

**Email:** [morteza.sameei@hccs.edu](mailto:morteza.sameei@hccs.edu)

**Website:** <http://www.hccs.edu/programs/programs-a-z/petroleum-engineering-technology/>

**Description:** The mission of the Petroleum Engineering Technology program is to provide high quality education and training, which will assist a diverse student body to prepare for career development primarily, lifelong learning, and academic advancement for careers in various fields involving Petroleum Engineering Technology and related applied sciences and engineering technologies.

## Houston (continued)

### Rice Center for Engineering Leadership

**Contact:** C. Fred Higgs, III, Ph.D. - Director

**Email:** [higgs@rice.edu](mailto:higgs@rice.edu)

**Website:** <http://www.rcelconnect.org/aboutrcel/>

**Description:** At the center of RCEL is the Engineering Leadership Certificate, an accredited academic credential aimed at preparing students for their first leadership role after graduation. The RCEL Certificate Program allows students to learn fundamentals of engineering leadership, practice their leadership skills while participating in engineering-based hands-on activities, give and receive coaching, and critically reflect on their leadership experiences through a series of structured self-assessments.

### Rice University MBA: Energy Concentration, Masters of Energy Economics

**Contact:** Katherine Schieffelin - Assistant Dean, External Relations

**Email:** [Katherine.s.schieffelin@rice.edu](mailto:Katherine.s.schieffelin@rice.edu)

**Website:** <https://business.rice.edu/academic-program/full-time-mba/concentrations>

**Description:** The concentration in energy provides commercial acumen and leadership perspective to students who have a technical background and develops their capability for taking additional responsibilities and higher-level management roles at companies in the energy and oil and gas sector. Courses in finance, operations, and product/customer focus are widely regarded as conduits to leadership positions in energy industry midstream and upstream organizations.

## Houston (continued)

### Rice University, Center for Energy Studies

**Contact:** Kenneth B. Medlock III - Senior Director

**Email:** [medlock@rice.edu](mailto:medlock@rice.edu)

**Website:** <http://www.bakerinstitute.org/center-for-energy-studies/>

**Description:** The Baker Institute's Center for Energy Studies focuses on providing new insights on the role of economics, policy and regulation in the performance of energy markets.

### Rice University, Chemical and Biomolecular Engineering Department

**Contact:** Michael S. Wong - Chair

**Email:** [mswong@rice.edu](mailto:mswong@rice.edu)

**Website:** <http://chbe.rice.edu/Content.aspx?id=47>

**Description:** Availability of inexpensive energy has long been identified as a key element for economic prosperity and national security. For decades, the energy industry has been a driver of research on new materials and tools for thermophysical property measurement. The production of hydrocarbons for meeting our energy needs and providing raw materials to the petrochemical industry will continue to be a dominant industry driver for decades to come. However, it is now recognized that production and use of hydrocarbons comes with an environmental cost. Therefore, emissions associated with hydrocarbon use and surface subsidence in areas around reservoirs will continue to be areas of important research.

## Houston (continued)

### **Petroleum Extension, Houston Training Center, University of Texas**

**Contact:** Coy Wilcox - Director

**Email:** [info@petex.utexas.edu](mailto:info@petex.utexas.edu)

**Website:** <https://cee.utexas.edu/ce/petex/>

**Description:** PETEX offers a wide selection of programs and services, developing innovative new products and delivering instruction when and where it's needed around the globe.

### **University of Houston, Cullen College of Engineering**

**Contact:** Joseph W. Tedesco - Dean

**Email:** [jtedesco@uh.edu](mailto:jtedesco@uh.edu)

**Website:** <https://www.egr.uh.edu/our-college/deans-welcome>

**Description:** Programs include Chemical, Civil, Industrial, Material, Mechanical, Environmental, Petroleum Geosensing Systems, and Subsea Engineering programs.

### **University of Houston, Global Energy Management**

**Contact:** Praveen Kumar, Ph.D. - Department Chairperson

**Email:** [pkumar@uh.edu](mailto:pkumar@uh.edu)

**Website:** <http://www.bauer.uh.edu/departments/finance/global-energy/>

**Description:** Energy is the largest industry in the world and commands a diverse spectrum of operations. Energy companies need leaders whose primary expertise lies in a great many fields of study, but the common denominator is always business.

## Houston (continued)

### University of Houston Energy

**Contact:** Phillip Jefferson , PE, CSP - Chair of the Energy Coalition

**Email:** [pjjefferson@uh.edu](mailto:pjjefferson@uh.edu)

**Website:** <http://www.uh.edu/uh-energy/about-uh-energy/energy-coalition/>

**Description:** The Energy Coalition brings together university organizations related to the energy industry into a single partnership. Currently there are 18 member organizations in the coalition.

### UH, Environment, Energy & Natural Resource Law

**Contact:** Marcilynn A. Burke - Associate Dean

**Email:** [mburke@central.uh.edu](mailto:mburke@central.uh.edu)

**Website:** <http://www.law.uh.edu/eenrcenter/course-description.asp>

**Description:** The Center for Environment, Energy and Natural Resources links energy issues with impacts on environment and natural resources. Building on the academic excellence of the faculty in these areas and the complex and multi-faceted energy and environmental issues in Houston, the Center provides a forum for education and discussion of the most important issues of the day, such as climate change, air pollution, clean coal and renewable energy.