Faculty Positions
Faculty of Engineering and Applied Science
Memorial University

The Faculty of Engineering and Applied Science at Memorial University of Newfoundland is experiencing an exciting period of major expansion. The Province of Newfoundland and Labrador has thriving offshore oil, ocean, energy, mining and information technology sectors, which have driven a rapid need and demand for engineers and research capacity in the Province. The Faculty aims to increase undergraduate enrolment by about 50%, double its graduate student enrolment, and hire 40+ new professors through this decade. This includes up to 12 new faculty positions over the next 1-2 years, particularly focused on ocean, arctic and offshore energy technologies.

Annual external research funding of faculty members is positioned to grow rapidly beyond its present level of about $16 million per year. Currently, several faculty members hold prestigious Canada Research Chair and Industrial Research Chair appointments. These include the Wood Group Chair in Arctic and Harsh Environments Engineering, Canada Research Chair in Ocean Technology, and Vale Research Chair in Process Risk and Safety Engineering.

Recent new initiatives include new science and engineering building infrastructure, exceeding $100 million, new $7 million Suncor Energy Offshore Research and Development Centre, and over $20 million in recent research grants involving enhanced oil recovery and design of ships and offshore structures in ice environments. Several new research chairs include the Husky Energy Research Chair in Offshore Engineering, Chevron Research Chair in Petroleum Reservoir Characterization, and Statoil Research Chairs in Reservoir Engineering, among others in development. Further new research chairs include the areas of Ice Management, Ice Mechanics and Station Keeping in Ice for CARD (Centre for Arctic Resource Development). CARD is a new $12 million centre that positions Memorial University among the foremost global leaders in Arctic resource research and development.

As part of the major expansion, the Faculty invites applications in all disciplines, including Civil Engineering; Electrical and Computer Engineering; Ocean and Naval Architectural Engineering; Process Engineering; and Mechanical Engineering. The Faculty has identified four areas of strategic priority and major existing strengths – 1) ocean technology; 2) energy; 3) ICT (information and communication technology); and 4) sustainable infrastructure and environment. Preference will be given to applicants in these four strategic areas.

The desired areas of expertise include, but are not limited to:

1) Civil Engineering – infrastructure management; geotechnical; environmental; design in ocean and harsh environments;
2) Electrical and Computer Engineering – sustainable energy and power systems; sensors, control and instrumentation; remote sensing and communications; software, computing and simulation;
3) Mechanical Engineering – materials science; dynamics, fluid machinery (marine applications); mechatronics; petroleum production and operations; renewable energy.
4) Ocean and Naval Architectural Engineering – naval architecture; Arctic and marine operations; ocean systems simulation; ship and offshore structural engineering;
5) Process Engineering – system and process design; green engineering and bioproducts; improved oil production; mineral processing; transport processes;

Preference will be given to candidates who possess an earned doctorate and undergraduate degree in the relevant engineering discipline or a cognate area. Postdoctoral or industry experience would be an asset. All academic appointments are governed by Memorial's Collective Agreement (visit www.mun.ca/munfa).

The salary will be commensurate with qualifications. Applications at the Assistant, Associate and Full Professor ranks are invited. The successful candidates will be expected to participate in the academic programs of the Faculty, including teaching undergraduate and graduate courses, developing laboratories, supervising graduate students, conducting an active research program, and other educational, scholarly and professional activities. It is desirable that the candidate will develop appropriate research collaborations with industry, government institutions, and other university researchers. The successful candidates are expected to register as professional engineers in Newfoundland and Labrador.

The Faculty of Engineering and Applied Science has a long, proud tradition and reputation of excellence in engineering education and research. Many faculty members are internationally renowned and award winning professors in their respective fields of research. The Faculty offers accredited undergraduate, master's and doctoral programs in civil, computer, electrical, mechanical, oceans and naval architectural engineering (unique in Canada), and process engineering. Further course-based graduate programs are offered in oil and gas, environmental systems, computer engineering and engineering management. In total, these programs are offered to approximately 1,500 undergraduate and graduate students. The Faculty's undergraduate co-operative programs were among the first in Canada. For further information on the Faculty of Engineering and Applied Science, visit www.engr.mun.ca.

Memorial University is the largest university in Atlantic Canada. As the province's only university, Memorial serves an integral role in the educational and cultural life of Newfoundland and Labrador. Offering diverse undergraduate and graduate programs to over 19,000 students, Memorial provides a distinctive and stimulating environment for learning in St. John's, a safe, friendly city with great historic character, vibrant cultural life, and easy access to a wide range of outdoor activities, such as close proximity to breathtaking hillside trails along the Atlantic Ocean. For further information about Memorial University, please view the website at www.mun.ca.

Applications will be accepted until February 28, 2013. Positions are subject to budgetary approval. Interested applicants should state clearly to which position/area they are applying, send a curriculum vita, names and contact information for three referees and a one-page statement of teaching and research interests. Copies of three relevant technical publications may also be included. Applications should be forwarded to:

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REFERENCE: ENGI-2013-001 (Civil Engineering); ENG-2013-002 (Electrical and Computer Engineering); ENGI-2013-003 (Mechanical Engineering); ENGI-2013-004 (Ocean and Naval Architectural Engineering); ENGI-2013-005 (Process Engineering)

Memorial University of Newfoundland is committed to employment equity and encourages applications from qualified women and men, visible minorities, aboriginal people and persons with disabilities. All qualified applicants are encouraged to apply; however Canadians and permanent residents will be given priority.