

Canada Research Chair- Tier II
Risk Management and Resource Optimization for Marine Industries
Industrial Engineering, Dalhousie University, Halifax, CANADA

Dalhousie University is recognized internationally for our world-class academic programs and as one of Canada's leading research institutions. With our 20th anniversary on the horizon in 2018, Dalhousie welcomes talented scholars to our home by the ocean and to join our mission to make a lasting impact through the discovery, advancement and sharing of knowledge.

Dalhousie is also home to the headquarters of the Ocean Frontier Institute (OFI; www.dal.ca/ofi). As an international hub for ocean science focused on the Northwest Atlantic and Canada's Arctic gateway, OFI will bring together elite researchers and institutes from across the globe to understand our changing oceans and create safe, sustainable solutions for ocean development. Including a \$93.7M award through the Canada First Research Excellence Fund program (CFREF; www.cfref-apogee.gc.ca), government, private and partner contributions, the OFI is a \$220M enterprise.

The Canada Research Chair (CRC) Program was established by the Government of Canada to enable Canadian universities to foster research excellence and enhance their role as world-class centres of research in the global and knowledge-based economy. Tier II Chairs, tenable for five years and renewable once, are for exceptional emerging researchers, acknowledged by their peers as having the potential to be leaders in their fields. More information on the CRC Program and eligibility can be found at www.chairs.gc.ca.

Dalhousie University is inviting applications for a Tier II CRC in the area of "Risk Management and Resource Optimization for Marine Industries", broadly conceived, at the rank of Assistant or Associate Professor in the Department of Industrial Engineering. Dalhousie University is home to a wide range of leading ocean research initiatives, complementing a thriving ocean industry sector and research facilities in the region: <http://www.dal.ca/research/oceanpower.html>. In particular, the Ocean Frontier Institute (OFI) was recently founded at Dalhousie as part of a successful Canadian First Research Excellence Fund (CFREF) application: www.dal.ca/ofi. MEOPAR (Marine Environmental Observation Prediction and Response) Network of Centres of Excellence (NCE) is also housed at Dalhousie, with a focus on addressing marine risks, particularly those arising from climate change and/or changing human uses of the ocean. Finally, the Centre for Ocean Ventures and Entrepreneurship (COVE) is slated to open on the harbourfront in the foreseeable future as an incubation hub for research, design and development. The Tier II CRC is expected to engage with researchers and partners at these, and similar institutions to advance risk management and resource optimization to a variety of marine related problems.

The successful candidate for the CRC in Risk Management and Resource Optimization for Marine Industries will have demonstrated potential and capacity to lead a research program that advances fundamental understanding of how various marine industries can operate successfully in an increasingly uncertain environment through optimal use of resources and effective risk management. This may involve deterministic and stochastic optimization; decision and risk analysis; resource management; location/allocation modelling; advanced statistics, spatial statistics and/or data mining expertise. The candidate must have: a completed PhD in Industrial Engineering or a closely related discipline, an innovative and original program of research, and the capacity to obtain external funding.

The selection criteria include research, teaching, ability to collaborate with industry, and engineering experience. Being a registered Professional Engineer in Canada, or eligible and committed to registration in Nova Scotia www.engineersnovascotia.ca is considered an asset.

The successful candidate's responsibilities include building collaborative research partnerships with knowledge-user communities, within and across Faculties, and external communities. The successful candidate will contribute to complementary areas of research within the university. The Chair is expected to teach one undergraduate course and one graduate course per year in areas relating to risk management, decision analysis, operations research, big data and/or data analytics.

The application deadline is February 28, 2017. Applications for this position should be made by submission of a cover letter indicating areas of research experience and interests, a curriculum vitae, and the names of three referees (with contact information), along with a completed Self-Identification Questionnaire, which is available at <https://www.dal.ca/becounted/selfid> to: Chair of the Search Committee, CRC Tier II in Risk Management and Resource Optimization for Marine Industries, Department of Industrial Engineering, Dalhousie University, PO Box 15000, Halifax, Nova Scotia, CANADA B3H 4R2 or by email to Industrial.Engineering@Dal.ca (enquiries can also be forwarded to the same email address).

This Tier II CRC is reserved for external recruitment. Only candidates who are external to Dalhousie University may apply. Dalhousie is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from qualified Aboriginal people, persons with a disability, racially visible persons, women, persons of minority sexual orientations and gender identities, and all qualified candidates who would contribute to the diversity of our community. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

GREAT CAREERS. GREAT CHOICE.
