



Doctoral (PhD) student position in Industrial Engineering with specialization in Risk and Safety Management

Within safety science and risk research, there is a growing awareness that apart from research addressing safety and risks of specific activities or application domains, there is a need to focus on the principles, frameworks, theories, and methods underlying the research field. Most work in risk and safety research proposes new methods, or analyzes risks or safety of particular activities. Nevertheless, many fundamental issues require more academic attention to strengthen the scientific foundations of the research field, and to improve practical applications.

The doctoral student will contribute to building the safety body of knowledge, making links between application-oriented methods, theoretical issues such as concepts and theories, and organizational issues. A broad interest in the academic disciplines of safety science and risk research are essential, while practical experience with industrial safety or risk management is an asset.

POSITION

Our Industrial Engineering Department is seeking a Doctoral (PhD) student in Industrial Engineering, with specialization in risk and safety management. The PhD student will join a dynamic, dedicated research group under the supervision of Prof. Floris Goerlandt, who holds the Canada Research Chair in Risk Management and Resource Optimization for Marine Industries and has extensive expertise in risk management and analysis, safety management, and maritime transportation.

The PhD student will be fully funded and registered as PhD student in Industrial Engineering at Dalhousie University (www.dal.ca). The location of work is in Halifax, Nova Scotia, Canada. Applicable policies of Dalhousie University's Faculty of Graduate Studies (<https://www.dal.ca/faculty/gradstudies.html>) will be adhered to in the recruitment, admission, and study phases.

The PhD student will have the opportunity to learn and work in a research-intensive environment, and have the opportunity for advanced training and developing her or his professional network through the MEOPAR Network and the Ocean Frontier Institute. The position is intended to complement research activities of another PhD student in Dr. Goerlandt's research group, and collaboration is encouraged. Research visits to national and international collaborators of Prof. Goerlandt, and participation in international conferences and workshops, will be possible as well. Finally, participation in academic career development programs offered by Dalhousie University is encouraged.

FUNDING AND APPLICATION DEADLINE

The position is available from January 1, 2020, through December 31, 2024 (max. 48 months), subject to satisfactory performance over the course of the studies and research. Starting in May 2020 is possible as well. Funding support amounts to minimum \$23,000 (CAD) per academic year. Besides committed funding from the co-supervisors' research budgets, the student can seek additional funding from other sources, including Faculty of Graduate Studies (FGS) allocations, merit-based internal scholarships and teaching assistantships. This position is funded by the National Science and Engineering Research Council of Canada (NSERC).

Application deadlines to the graduate program can be found through the website of the Faculty of Graduate Studies (<https://www.dal.ca/faculty/gradstudies.html>). Before applying to the Faculty of Graduate Studies, an agreement of acceptance by Prof. Goerlandt is strongly encouraged.



QUALIFICATIONS

The ideal candidate will be someone who:

- Holds a M.Sc. in a relevant field, preferably safety engineering, risk management, industrial engineering or a closely related discipline;
- Has excellent academic records and good interpersonal skills;
- Is fluent in the English language (minimum IELTS 7.5 or equivalent, higher is strongly desired) ;
- Has a strong interest in fundamental ideas, concepts, and theories related to safety and risk;
- Has a keen interest in academic knowledge, and preferably experience with practical (industrial) risk and safety management;
- Has a strong interest and ability to learn new research methods and skills;
- Has interest in conducting interdisciplinary research;
- Has strong time management, organizational, and project management skills;
- Works well both independently and as part of an interdisciplinary team;
- Can communicate effectively with researchers in various disciplines and with non-academic members of governments, communities, and the private sector.

APPLICATION

Applicants should submit a detailed curriculum vitae and a transcript of records, and the contact information of two referees, by email to Prof. Floris Goerlandt (floris.goerlandt@dal.ca) with "Lastname Firstname IENG PhD application #2019-06" as subject line (i.e. put your last and first name in the email heading). Applications will be considered from June 1, 2019, until the position is filled. Please address any inquiries to Prof. Goerlandt.