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Research Assistant Position Available – Natural Gas Engine Development (towards a Master’s degree)

How to Apply

Interested candidates may contact **Dr. Jason Olfert** by email at jolfert@ualberta.ca to discuss their qualifications and the project. To apply for this opportunity, please submit your resume and transcripts by 5 pm on April 1st to Dr Olfert. A cover letter detailing how this research aligns with your future career plans is optional, but encouraged.

The Opportunity

Dr. Jason Olfert of the Department of Mechanical Engineering at the University of Alberta and Innovative Fuel Systems (www.innovativefuelsystems.com) invites applications and queries for a full-time Master’s research assistant position in the area of **Natural Gas Engine Development**.

The Project

Dr Olfert is wanting to hire a full-time Master’s research assistant in the area of internal combustion engines. The research project is a collaboration with Innovative Fuel Systems. IFS is an Edmonton-based alternative fuel systems company which provides Dual Fuel systems for transport and stationary engines, Bi-Fuel CNG & Propane systems, fleet maintenance and vehicle repair. IFS’ primary focus is the development of natural gas dual-fuel systems for heavy-duty Diesel engines. Natural gas is a cleaner and more cost-effective fuel than Diesel, and transportation businesses are seeing the value of high performing dual fuel engines — via significant and sustainable fuel savings and by reducing greenhouse gas (GHG) emissions. IFS and Dr Olfert have an opportunity for an engineering graduate student with a focus on the measurement and analysis of heavy-duty Diesel and dual-fuel engine emissions. The student can expect to work in a fast-paced, hands-on development environment with the latest Diesel engine and emission aftertreatment technologies.

Required Qualifications

- Bachelor’s of Science (or Engineering) degree in Mechanical Engineering
- Willing to register in the University of Alberta’s MSc Program
- Keen interest and/or experience (coursework, research, and/or industrial) in: thermodynamics, combustion engines, and instrumentation.
- Minimum GPA of 3.3
- Proven ability to work independently
- Effective written and verbal communication skills; proficiency in English
- Open to Canadian citizens, permanent residents of Canada, and foreign students

Compensation

The research assistant will receive **financial support** during the tenure of their program, to a minimum of \$24,000 per year.

Start Date: May 2019