**Experimental Testing and Data Analysis for a Flame Spray Pyrolysis Jet Fuel Burner**

The Energy and Particle Technology Laboratory (EPTL) at Carleton University, Ottawa, Canada is accepting applicants for a Master of Science position on data analysis and experimental lab work on a newly developed jet fuel rapid testing assembly. The successful applicant will work directly with a MSc. student who has developed this assembly for their thesis. Aiding with continuation of testing on a variety of jet fuels and the required data analysis. The successful applicant will work towards highlighting the successes, drawbacks, and applications of the rapid testing assembly for future work in the aerospace industry of fuel testing. This research is in collaboration with National Research Council Canada and testing takes place at the NRC Montréal Rd. campus and starts on May 1st, 2022.

**Candidate qualifications**

Candidates must have completed at least four years of studies in mechanical or aerospace engineering or in a closely related field. The candidate should have demonstrated experience in the following areas:

* Must be proficient in data analysis software such as Excel and MATLAB
* Applicants should have a strong eye for detail, trends, and patterns in large datasets
* Experience from the construction of experimental equipment and related infrastructure
* work independently, self-motivated, with a strong work ethic and collaborative skills
* Applicants must be proficient in both written and oral English and possess excellent communication and interpersonal skills.
* Minimum GPA of A- (10).

**Energy and Particle Technology Laboratory**

EPTL conducts research on **nanoparticle engineering**with applications in energy storage, advanced material synthesis, emission sensing and quantification of their impact on the environment. We develop process design tools for scalable gas phase synthesis of nanoparticles with tailored functional properties and study how particle characteristics including their size distribution, morphology and chemical composition are linked to their properties of interest such as optical, sensing and energy storage characteristics.

**How to Apply**

Applications should include a CV and a cover letter clearly outlining how past research and experience provide the essential qualifications to undertake the project. Additionally, contact info for three references should be available upon request. Please Direct Application to: Professor Reza Kholghy (Director of EPTL): [reza.kholghy@carleton.ca](mailto:reza.kholghy@carleton.ca)