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**THE UNIVERSITY OF BRITISH COLUMBIA**



December 23, 2021

**Postdoctoral position available in UBC's combustion for propulsion and power laboratory**

Responsibilities and project description, job details, how to apply, and information about the laboratory and UBC Okanagan are provided below.

**Responsibilities and project description:**

The project aims to develop knowledge regarding the coupling mechanisms between heat release rate, pressure, and emissions from a gas turbine engine model combustor fueled with novel and sustainable aviation fuels using experiments and machine learning. The selected candidate will be working closely with another postdoctoral fellow (who is a materials scientist), a Master's student, three professors from both campuses of UBC, as well as two industrial partners. The selected postdoctoral fellow is responsible for guiding the Master's student to perform reacting flow related experiments, educate themselves about and perform material characterization experiments, analyze data, and write scientific articles.

**Job details and application deadline:**

The job duration is 24 months. The tentative start date is March 1, 2022. The stipend is a total of \$45K CAD per year + travel cost for one conference per year.

**How to apply and deadline for application:**

Please email your CV and one publication sample to Dr. Kheirkhah's UBC email. The application deadline is January 31, 2022. Dr. Kheirkhah will contact the short-listed candidates for interview. UBC hires based on merit. All qualified applicants are encouraged to apply. CPPL, especially, encourages applicants from visible minority groups, women, Indigenous peoples, persons with disabilities, persons of minority sexual orientations, and, in general, applicants with strong past contributions to promotion of equity, diversity, and inclusion in the academic environment.

**About CPPL and UBC Okanagan:**

The combustion for propulsion and power laboratory (<https://www.cpp.ok.ubc.ca/>) aims to develop technologies for future aircraft and power generation engines that operate safely and sustainably. We use experimental methods and novel ideas inspired from multidisciplinary research areas to achieve the above goal. CPPL is at the School of Engineering of the UBC's Faculty of Applied Science. The laboratory is located in the interior of British Columbia, Kelowna.