Tuesday, November 14, 2017

Mechanical and Aerospace Engineering (CRC Tier-2, Combustion Emissions Quantification a...

Academic unit:	Mechanical and Aerospace Engineering
Category of appointment:	Preliminary (Tenure-Track)
Field of Specialization	CRC Tier-2, Combustion Emissions Quantification and Reduction
Rank/Position title:	Assistant/Associate Professor
Start date:	July 1, 2018
Closing date:	Applications will be reviewed until the position is filled

About the Position:

The Department of Mechanical and Aerospace Engineering invites applications for a Tier-2 Canada Research Chair tenure-track position at the Assistant or Associate Professor level. The successful candidate will have research strength in one or more areas closely aligned with the goals of quantifying and reducing greenhouse gas and other emissions from the energy sector. The target start date is July 1, 2018. Applications will be accepted until the position is filled. The selected candidate's appointment will be conditional upon the candidate preparing and submitting an application for a Tier-2 Canada Research Chair.

The successful candidate will have research expertise strongly aligned with the objectives of environmental sustainability through emissions quantification and reduction, pollutant source identification and attribution, greenhouse gas (GHG) mitigation strategies, or novel combustion technologies. Examples of research areas of interest include novel technologies for monitoring and quantifying GHG and pollutant emissions sources, development and application source attribution techniques, GHG and pollutant mitigation technologies, alternative fuel combustion, advanced combustion systems, and combustion modelling and analysis to inform and support effective regulatory policies, or a closely related field. The candidate will be expected to have the necessary vision and capabilities to lead interdisciplinary, multi-institution, and industrially-supported research projects.

About the Academic Unit:

At the Bachelor's level, the Department offers degrees in Mechanical, Aerospace, Biomedical, and Sustainable and Renewable Energy Engineering. There is a Master's degree in Materials, as well as both Ph.D. and M.A.Sc. degrees in either Mechanical or Aerospace Engineering.

The Department currently comprises over 35 faculty members, with research across all core areas of mechanical and aerospace engineering. Of specific interest is substantial strength in all areas of fluid mechanics and thermodynamics, including experimental and computational fluid dynamics, aerodynamics, fluid structure interactions, and combustion. The department is the lead institutional partner to the NSERC FlareNet strategic network grant (www.flarenet.ca), and it is likely that the FlareNet infrastructure and personnel would find close synergies with the advertised position.

There are excellent external opportunities for research collaboration with industry, government institutes and laboratories.

Qualifications:

Tier-2 Chairs are intended for exceptional emerging scholars (i.e., candidate must have been an active researcher in their field for fewer than 10 years at the time of nomination). Applicants who are more than 10 years from their highest degree (and where career breaks exist, including maternity leave, extended sick leave, clinical training, etc.) may have their eligibility for a Tier-2 Canada Research Chair assessed through the program's Tier-2 justification process. Please visit http://www.chairs-chaires.gc.ca/ for complete program details.

The successful candidate must have a Ph.D. in Mechanical engineering or a related field, and a commitment to teaching, research and the engineering profession. The successful candidate will be expected to be an effective undergraduate and graduate teacher. He or she must have the potential to attract, develop and retain excellent trainees, students and future researchers, and to lead independent research programs yielding high-quality peer-reviewed publications. Membership in a Canadian professional engineering association is required within two years of appointment.

Application Instructions:

Please send your application including a curriculum vitae, the names of three referees, and statements on your teaching and research interests electronically in one single PDF file to the MAE Hiring Committee,
Email: Hiring.MAE@carleton.ca

Please indicate if you are a Canadian citizen or permanent resident.

As a part of your application, we invite you to complete a short anonymous and voluntary equity census to help us understand the diversity of applicants and further develop our equity program https://oirp-secure.carleton.ca:443/opinio/s?s=6531

About Carleton University:

Please visit www.carleton.ca/provost.

Carleton University is strongly committed to equity, diversity, and inclusion in the nomination and appointment process and to fostering diversity within its community as a source of excellence, cultural enrichment, and social strength. We welcome those who would contribute to the further diversification of our University including, but not limited to: women; visible minorities; First Nations, Inuit and Métis peoples; persons with disabilities; and persons of any sexual orientation or gender identity and expressions.

Applicants selected for an interview are asked to contact the Chair of the Search Committee as soon as possible to discuss any accommodation requirements. Arrangements will be made in a timely manner.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. All positions are subject to budgetary approval.

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