

Aerospace Engineering - Professor (Spacecraft Design)
Ecole de Technologie Superieure

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Posted Feb. 26, 2024, set to expire Oct. 15, 2024

Job Title Aerospace Engineering - Professor (Spacecraft Design)

Department Aerospace Engineering

Institution Ecole de Technologie Superieure
Montreal, Quebec

Date Posted Feb. 26, 2024

Application Deadline Apr. 15, 2024

Position Depending on the candidate's availability
Start Date

Job Categories Professor

Academic Field(s) Aerospace/Aeronautical/Astronautics
Engineering - Other

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Job Description

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L'École de technologie supérieure (ÉTS) is a rapidly evolving university in engineering and technology located in downtown Montreal. ÉTS offers undergraduate and graduate programs focused on applied engineering as well as state-of-the-art research infrastructure. ÉTS is also home to the [Centech](#), a business incubator, offering support services for researchers wishing to commercialize their research.

Contributing to Quebec's economic and technological development is part of ETS mission. A new campus will be developed in Longueuil, Quebec, close to Montreal. A strategic collaboration with the City of Longueuil, the École nationale d'aérotechnique (ÉNA) and the Centre technologique en aérospatiale (CTA), will enable ÉTS to be part of a dynamic ecosystem of training, research and innovation in aerospace engineering.

By joining ÉTS, you will join a very [dynamic and diverse research environment](#). Your work will make a concrete contribution to scientific progress and the development of Quebec's productivity and competitiveness as well as the training of a highly qualified workforce.

What we offer:

- A start-up and an equipment fund to support your scientific career
- Financial support for research and teaching (teaching and research supervision credits, funds to pay exam grading staff, etc.).
- A personalized onboarding process
- A structure to promote your research as well as networking activities to help you recruit students.
- A work environment favorable to your career development, both for research and teaching.
- A mentor program for all faculty members is offered at your arrival and throughout your career.
- Support for the immigration process and a relocation for you and your family
- A full-course program to learn French.

Our Aerospace Engineering Department

Dive into Aerospace Engineering!

Our department offers several study programs at both the undergraduate and graduate levels. These training courses are led by professors who have diverse and complementary expertise, thus promoting the emergence of innovative multidisciplinary approaches. In addition, we actively encourage interdisciplinary collaborations with other departments such as Mechanical Engineering, Software and Computer Engineering, as well as Electrical Engineering, for the realization of projects that are both complex and innovative.

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At the heart of our educational approach lies a strong emphasis on practical learning. Our students benefit from concrete projects, simulations, workshops and design challenges that stimulate their creativity and know-how. These projects are not just academic exercises; they represent cutting-edge research relevant to the aerospace industry. We frequently collaborate with government organizations, companies in the aerospace sector and research laboratories, thus giving a concrete and application dimension to our teaching.

Regarding the Position

The Aerospace Engineering department is seeking to fill faculty positions requiring basic training in engineering relating to one of the fields listed below, such as Aeronautical, Aerospace, Mechanical, Electrical or Physics Engineering. Eligible candidates must have general knowledge in the field of aerospace standards and regulations.

Your expertise should be oriented towards one or more of the following research fields:

Spacecraft Design: Based on the requirements of the space mission, the design of a spacecraft involves design, validation and construction.

- Design of spacecraft for deep space exploration
- Satellite design
- Propulsion for spacecraft
- Engineering of reusable launchers
- Space habitats and survival systems
- Equipment for resource exploitation (for example, the Moon or Mars)
- Space debris mitigation and cleanup
- Next generation space telescopes
- Interplanetary communication
- Aerospace environment and effect of radiation

Job Description

As part of the research team, the candidates sought will:

- Teach courses at both the undergraduate and graduate levels;
- Mentor graduate students;
- Develop a research program;
- Complete grant and funding applications, particularly with provincial, federal or international

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agencies as well as with industrial partners, municipalities and foundations;

- Carry out funded, potentially interdisciplinary research projects with local, national and international partners;
- Ensure the dissemination of your research.

Requirements

- Hold a Doctorate (PhD) in Engineering or in applied science in a relevant field for this position;
- Be a member of the *Ordre des ingénieurs du Québec* (OIQ) or be eligible to join the OIQ and undertake the necessary steps to become a member before submitting an application for full professorship;
- Have experience in conducting research in collaboration with industry or solid experience in industrial R&D;
- Demonstrate excellent skills related to training highly-qualified personnel through research projects and teaching;
- Be proficient in French (oral and written), in compliance with the [ÉTS Language Policy](#) (in French), or demonstrate a willingness to learn French and enter into a francization process with the support of ÉTS.

Start Date

Depending on the candidate's availability

Place of work

ÉTS campus in St-Hubert, City of Longueuil, Quebec, Canada

Submitting an application

All applications will be processed in strict confidentiality.

ÉTS will take into account any leaves that may result in career interruptions or delays. Therefore, we encourage you to mention any such leave that may have affected your professional path. We will take this information into consideration when evaluating your application.

In case of a disability, we may offer accommodation measures during the hiring process.

Interested candidates are invited to submit their application **before 5:00 p.m. (EST) on March 24, 2024**

Each application must include the information indicated below in a **single PDF document, in the following order**

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:

- An automated (dynamic) Table of Contents;
- A cover letter;
- Your curriculum vitae;
- A statement of your teaching objectives;
- Your research plan, including an indication of how your work complements the areas of research targeted by a department or research group at ÉTS;
- A sample of your research achievements (e.g.: recent scientific articles).

If you require more information, please contact **bap-candidatures@etsmtl.ca**. You must submit a complete application for it to be considered. Only those candidates who are retained for an interview will be contacted.

Compensation

This is a tenure-track position. The process and benefits will be determined in accordance with the applicable collective agreement [convention collective de l'Association des professeurs de l'ÉTS](#) (APÉTS).

Immigration Requirements

In compliance with the immigration requirements in effect in Canada, ÉTS invites all qualified individuals to apply. However, priority will be given to Canadian citizens and permanent residents. When submitting an application, it is important to indicate whether you are able to work in Canada, so that the applicable immigration procedures can be planned accordingly.

EEO/AA Policy

ÉTS is actively implementing its Equal Opportunity Program, inviting applications from women, Indigenous, visible and ethnic minorities and people with disabilities. Valuing inclusion, we are committed to overcoming the barriers faced by people with disabilities in the workplace. We offer accessibility measures and are ready to provide assistance during the pre-selection and selection process to candidates who so wish. We encourage equity, diversity and inclusion, and consider these values to be fundamental to our working environment. We are taking concrete steps to increase diversity within our work teams. To this end, we ask you to identify yourself so that we can take this

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into account throughout the selection process. To do so, please complete the Equal Employment Opportunity form and send it to us with your curriculum vitae. The candidate must have the right or permission to work in Canada from the start of the assignment, and for the entire duration of the assignment.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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Canada