



AEROSPACE GRADUATE STUDENTS POST-DOCTORAL FELLOWS



NSERC CREATE IN COMPETITIVE MANUFACTURING FOR THE AEROSPACE INDUSTRY: TECHNOLOGY AND DESIGN

McGill University has partnered with CRIAQ (Consortium de Recherche et d'Innovation Aérospatiale au Québec) and other universities (Laval, Concordia, ÉTS, École Polytechnique) to offer a first-of-its-kind training program in aerospace manufacturing and design for graduate students and postdoctoral fellows.

The CREATE program (Collaborative Research and Training Experience) is a federally-funded initiative that supports the training of teams of highly qualified students and postdoctoral fellows (PDF). Its uniquely collaborative and integrative training/research approach will add significant value to your academic experience and increase your job-readiness. You will address significant engineering challenges while also developing important professional skills that will enable your smooth transition into the Canadian aerospace workforce. This is a unique program for the aerospace industry that will admit and graduate only a limited number of students, which will give you a competitive career advantage.

The Challenge:

Post-graduate students and postdoctoral fellows are recognized as superior researchers, highly knowledgeable in advanced science and engineering disciplines. However, they often lack the leadership skills and attributes expected by the Aerospace Industry in order to easily transition and significantly contribute to the workforce.

The Solution:

Develop a program that builds on the solid foundation of a student's research capabilities and integrates corporate-level training in professional development and leadership skills.

The Benefits:

Value-added and industry-recognized attributes and skills. The program also includes mandatory workshops and a mandatory industrial internship. These benefits are designed to improve your job prospects in the aerospace industry. Students will receive a financial stipend of \$6,600/year for their full participation while they are in the program. (Payments are distributed over the year on a monthly basis until such time as a student has completed the AeroCREATE program requirements or graduated from their academic program. *(Please see note regarding Program End Date, on next page.)*)

The Program:

Students complete their advanced academic degree while taking mandatory professional development courses and workshops; and, doing a mandatory 4-month minimum industrial internship for Masters & PDF students; or, a mandatory 8-month minimum industrial internship for PhD students.

Course Requirements:

The AeroCREATE Program consists of three components of skills training, with the titles of course/lecture series in brackets:

1. Aerospace technical areas (CAPE Lecture and Networking Series)
2. Aerospace business/operational (Best Practices in Aerospace Management)
3. Professional/leadership skills and project management (Interpersonal Skills for Professionals and Online Project Management)

All three components are required for students to successfully complete the AeroCREATE program. The next page contains links to the courses, where you can read the curriculum and descriptions of topics. (Ignore the dates listed on the website, as these may change in the next coming weeks.

1. Aerospace technical areas (CAPE Lecture and Networking Series)

<https://www.mcgill.ca/continuingstudies/programs-and-courses/aerospace/cape-lecture-networking-series>

2. Aerospace business/operational (Best Practices in Aerospace Management)

<https://www.mcgill.ca/continuingstudies/programs-and-courses/aerospace/capein>

3. Professional/leadership skills and project management (Interpersonal Skills for Professionals and Online Project Management)

<https://www.mcgill.ca/continuingstudies/programs-and-courses/business-and-management/courses-and-workshops/consulting/skills>

<https://www.mcgill.ca/continuingstudies/programs-and-courses/project-management/courses-and-workshops/certification>

The courses are delivered through the Centre for Aerospace Professional Education (CAPE), which is co-led by McGill and ÉTS, in partnership with aerospace companies in the Montreal area. CAPE provides training that develops and deepens knowledge, skills, and interests of aerospace engineers. Professional/leadership skills training is offered through McGill’s Continuing Studies. In addition, AeroCREATE may bring in guest speakers to offer special-topic lectures – you’ll be notified of these when they are being planned for, as they are not regularly scheduled through the year, like the required components above.

Note: You **MUST** be available for courses during mid-March to June 2018 timeframe; and, August to October 2018 timeframe (these timeframes may vary if course provider schedules change).

Eligibility:	<ol style="list-style-type: none"> 1. Your research must be in the area of aerospace manufacturing and design. 2. You must be enrolled in one of the participating universities: Concordia, ETS, Laval, École Polytechnique, or McGill. 3. Bilingual (French/English) language skills preferred. 4. Canadian Citizenship or Permanent Resident status preferred. 5. Priority will be given to students doing an internship at a Canadian aerospace company (MITACS OK) that amounts to the total required for AeroCREATE program: PhD: 8 months full-time; Masters/PDF: 4 months full-time. 6. You must be able to meet the schedule for course requirements availability in the above Note.
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Application:	<ol style="list-style-type: none"> 1. Fill in the application form; follow the instructions on the form precisely. 2. Do not leave anything out. 3. Convert completed, signed application into PDF format. 4. Scan and email it before noon, February 28, 2018 to: linda.chernabrow@mcgill.ca
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Notification of Program Acceptance or Non-acceptance:
You will be sent notification of your status by end of day **March 9, 2018**.

Note Regarding Program End Date:

This is the final recruitment of students (Cohort 4). The six-year period NSERC funding for the AeroCREATE program will end on March 31, 2020. Therefore, this is the normal end date for the program and stipend payments.

NSERC reserves the right to terminate funding before the normal end date, at its discretion, which may then result in an earlier end date for the AeroCREATE program and stipend payments.

