



CALL FOR SCHOLARSHIP APPLICANTS

Graduate students working in one of the PI laboratories of the NSERC CREATE in Manufacturing, Materials and Mimetics (M3) are invited to apply for graduate student scholarships. Each scholarship has a value of up to \$15K and each student is eligible to hold up to 2 years of scholarship funding. It does not have to be in sequential years and a new application is required for each year. Only students interested and able to do an industry internship as part of their training should apply. We have 16 scholarships available in the 2015/2016 academic year. All current graduate students are eligible to apply. There are additional criteria for funding that are detailed below.

Eligible students are those Master's and PhD students in the laboratories of: Julie Audet, Mick Bhatia, Krishna Mahadevan, Alison McGuigan, Derek van der Kooy, Milica Radisic, Janet Rossant, Muhammad Yousaf, Michael Sefton, Molly Shoichet, Peter Zandstra

Applications consist of a one-page description of your current research project and degree program (Master's or PhD), why you are interested in this program, what is your current source of funding, whether you have taken any of the required soft skills courses (recommended in the attached form). Additional information may be required. Applications are due by **June 15, 2015** to Angelika, info.m3@utoronto.ca.

The overarching goal of the NSERC CREATE in M3 is to train students with the translational breadth and interdisciplinary depth required for success in the high value sectors associated with M3. These "Tshaped" graduates will gain breadth from industry experience plus courses in entrepreneurship, leadership, communication; and gain depth from advanced research and their core curriculum.

The NSERC CREATE in M3 will provide a streamlined training environment for the advancement of knowledge and its translation:

1. Core knowledge in: a) M3 b) leadership c) communication d) entrepreneurship
2. Advanced Research in: a) cell manufacturing b) biomaterials design c) tissue mimetics

M3 students are required to take, in addition to their core curriculum in year 1:

- 1) One communications course: one semester course
- 2) Entrepreneurship 101 offered by MaRSDD (online or in person) or one of the ILead courses
- 3) A professional development workshop (offered by M3 or approved by Molly Shoichet)

In a separate year:

- 4) Industry internship: 4-6 months in industry (we will work with students to help them facilitate placement)

Please refer to the attached course recommendations.



APPLICANT INFORMATION

1. Full name: _____
2. Student/Personnel Number: _____
3. Supervisor: _____
4. Graduate studies start date: _____ Estimated degree end date: _____
5. Home department: _____
6. Additional departments that you are affiliated with: _____
7. Is this your first application to NSERC CREATE in M3?
Yes
No (complete question 8)
8. When did you apply/start NSERC CREATE in M3? _____
9. Status in Canada (please check one):
Canadian Citizen
International Student
Permanent Resident (landed immigrant)
9. Current level of studies (please check one):
M.Sc.
Ph.D.
10. Name of current degree: _____
11. Discipline group (please check one):
Computer Science
Engineering
Life Sciences
Mathematical Sciences
Physical Sciences
Other
12. Type of Discipline (please check one):
Natural Sciences & Engineering
Non-Natural Sciences & Engineering

RECOMMENDED COURSES FOR NSERC CREATE M3 STUDENTS

Students must take 1 communications course, 1 entrepreneurship/leadership course, 1 professional skills workshop for 1 year of scholarship funding.

NOTE: Non-UofT students can contact Angelika (info.m3@utoronto.ca) to discuss equivalent courses offered at their institutions.

General Focus	Recommended Courses	Info to Search for Course
Communication	Graduate Scientific Writing Course	Chemical Engineering & Applied Chemistry. Instructor: Debby Repka
	Oral Presentation Skills for Native Speakers of English (or non-native speakers of English).	Office of English Language & Writing Support (ELWS), School of Graduate Studies (SGS). Instructor: Jenny Lofgreen
	Prewriting Strategies for Developing & Organizing your Ideas.	ELWS, SGS. Instructor: Jane Freeman
	Engineering Presentations (APS1027H)	ILead
Entrepreneurship	Entrepreneurship 101 Certificate	MaRSDD
	Social Entrepreneurship (APS1015H)	Mechanical & Industrial Engineering (MIE) ILead
	Entrepreneurship and Business for Engineers (APS1088H)	(CHE) ILead
Leadership	Cognitive and Psychological Foundations of Effective Leadership (APS1010H)	ILead
	Concepts and Applications of Authentic Leadership (APS1011H)	ILead
	Leadership and Leading Groups in Organizations (APS1501H)	ILead
	The Science of Emotional Intelligence and its Application to Leadership (APS1029H)	ILead
	Leadership in Project Management (APS1019)	ILead
Professional Skills Workshop	*Workshop in the following topics: conflict resolution, project management, business conduct excellence, proactive communications. Organized by M3 or approved by Molly Shoichet.	School of Graduate Studies, Professional Skills Program, MITACS, other

Important Note: Students need to provide some proof of attendance or completion of these courses/

workshops to the Project Coordinator, Angelika Duffy, info.m3@utoronto.ca. A form requesting an instructor's signature is attached. **VERY IMPORTANT:** Please notify your course/workshop instructor before the start of the session(s) of your request for a signature for the sole purpose of showing that you have attended or completed the specific session. You must provide Angelika with a syllabus/description/agenda of the course/workshop.

*If you are attending a multiple day workshop, please make sure you attend the entire workshop in order for it to be considered complete. Any workshop other than that offered by M3 needs prior written approval by Molly Shoichet (NSERC CREATE in M3 PI).



REQUEST FOR SIGNATURE

NSERC CREATE in Manufacturing, Materials and Mimetics
Lead PI: Dr. Molly Shoichet, PhD, FRSC, O. Ont. Professor and Canada Research Chair,
Tissue Engineering, Chemical Engineering & Applied Chemistry.

Dear Instructor,

As part of our NSERC CREATE in M3 training program we require our students to participate in various courses/workshops in addition to their core curriculum. As a simple proof of completion/attendance of the sessions, we ask if you could provide the student, who completed your session, with a signature below. If you have any questions regarding our request please contact the Project Coordinator Angelika Duffy, info.m3@utoronto.ca or 416-946-7926.

A Sincere Thank You,
Angelika

_____ (print name of student), has completed the course, workshop,

(circle one) titled: _____.

Duration of the above session: _____.

_____ (print name of instructor)

_____ (signature of instructor)

Note: keep this form for the M3 courses/workshops that you attend. Submit to Angelika Duffy, info.m3@utoronto.ca or the Donnelly Centre room 512.



INTERNSHIP TIME AGREEMENT

Name of Graduate Student _____

Grad Program start date _____ estimated end date _____(mo/yr)

When will you be ready for a 4-6 month internship? _____

Note: please provide an estimated time frame (months/year) when you will be ready for an internship

Name of Principal Investigator _____

- I support my student to do an internship during the time they have specified above
- I do not feel that my student will be ready for an internship during the time frame specified above and I propose the following time frame

_____ (mo/yr)

Signature of Principal Investigator _____

Signature of Graduate Student _____

Date _____

Note: Please discuss the potential timing of your internship together with your principal investigator and sign the form at the same time.



NSERC CREATE M3 APPLICATION CHECKLIST

Please send your application documents electronically to: info.m3@utoronto.ca.

- 1) Current CV
- 2) One page application (see page 1 for details required)
 - Describe your current research project and degree program (Master's or PhD)
 - Why are you interested in the CREATE in M3 program?
 - What are all your sources of funding?
 - Have you taken any of the required soft skills courses (recommended in the attached form)?
- 3) Applicant information page completed
- 4) Internship time agreement (signed)