

Canadian Engineering Memorial Foundation

3-247 Barr Street
Renfrew, Ontario K7V 1J6
1-866-883-2363 info@cemf.ca www.cemf.ca



Fondation commémorative du génie canadien

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RONA HATT MASTERS IN CHEMICAL ENGINEERING SCHOLARSHIP

APPLICATION INFORMATION AND CRITERIA

ABOUT THE RONA HATT MASTERS IN CHEMICAL ENGINEERING SCHOLARSHIP

The Canadian Engineering Memorial Foundation was founded in 1990 to develop scholarship and award programs that encourage women to choose engineering as a career to honour the memory of the 14 women at École Polytechnique whose contributions to Canada ended in such a tragic way on December 6, 1989.

CEMF offers one \$10,000 scholarship in Canada to a woman enrolled full-time in a graduate chemical engineering program at the Masters level.

This scholarship is named in honour Rona Hatt who was the first known Canadian woman to become a chemical engineer, graduating from UBC in 1922.

This scholarship that goes beyond financial support. It is meant to encourage women to pursue their career path in engineering while inspiring others to follow in their footsteps, and recognize the valuable contribution women bring to engineering through research, teaching and community involvement.

The successful applicant must be is a proven leader and an active volunteer in her community and will act as a role model to other young women to encourage them to pursue a career in engineering. This scholarship is **not** based on academic achievement.

Applicants must be female engineering students at the undergraduate level enrolled full-time in an accredited engineering program at a Canadian university. The scholarship recipient will be required to make at least one presentation to junior high school or high school students.

There are many other great reasons for applying for this scholarship:

- **Promotion and Recognition.** Those selected for a CEMF scholarship are featured in an annual Faces of the Future booklet with a biography and photo distributed nationally, an individualized press release sent to the national media, professional engineering associations, the recipient's university and community media. As well, the winners' names, photos, university and year of receiving the scholarship are prominently promoted

on the website. Throughout the year, winners are promoted through a variety of public relation methods from posters to media interviews.

- **Career Networking and Travel Opportunities.** The successful applicant will be invited to attend the CEMF Awards Luncheon to be presented with their award. This event is hosted by Engineers Canada in various national locations. Travel and accommodation will be provided, and the winner will be given an opportunity to meet and network with prominent members of the industry, leaders in engineering innovation and other scholarship winners. As well, the CEMF Board of Directors is made up of professional engineers who are available to support and/or mentor the winner in her pursuit of a successful career.
- **Recipients Can Use the Monies in Any Capacity.** Unlike many other scholarships, CEMF does not require scholarship winners to apply the award to tuition, books or academic costs. Rather, scholarships are geared to helping students stay in engineering and can be used in any capacity the student requires – from living expenses to child care.
- **A Focus on the Future.** Scholarship recipients act as ambassadors to the field of engineering and serve as role models for other young women to encourage them to become professional engineers.
- **A Scholarship for Leaders.** While recognizing that academic excellence is important, this scholarship is not awarded based on academic achievement. The focus is on women students who are proven leaders in their community and who have dedicated time to extracurricular activities and volunteerism while serving as a role model to others.
- **We Are Here to Help.** Applicants can call CEMF toll-free while preparing their application to ask questions or for clarification of requirements. **1-866-883-2363.**

QUALIFICATION and ELIGIBILITY REQUIREMENTS

Applicants to these scholarships should carefully review the eligibility requirements listed below, along with the checklist provided, to ensure **ALL** required documents are included when applying.

Applications that are missing required documents will be immediately disqualified.

1. You must be a Canadian citizen, or be a Landed Immigrant with a Permanent Residence card.
2. You must be a female student enrolled full-time in a Masters engineering program at a Canadian university (this will be confirmed through your Dean) **AND you** must either have:
 - a. An undergraduate engineering degree from an **accredited** Canadian program.
(Visit the Engineers Canada website at www.engineerscanada.ca where all

*accredited Canadian university engineering programs are listed to check your eligibility); **OR***

- b. Have your P.Eng. designation in accordance with Canadian and provincial regulations and provide CEMF with your License Number; **or**
- c. Be recognized by the Professional Engineering Association in your province of residence as an Engineer-In-Training/Junior Engineer. You must provide CEMF with your E.I.T. number or Junior Engineer number on your application.

If you have applied for registration as an EIT but have not received confirmation from your Provincial Association by the scholarship application deadline, please submit a copy of your application form. If you are selected as the winner, CEMF will not release any monies until your EIT / Junior Engineer status is confirmed by the provincial association.

- 3. While there is no limitation on the number of applications from any university or program, you as an individual **cannot** apply to more than one CEMF scholarship a year. You **cannot** win this scholarship more than once. You **can**, if unsuccessful this year, reapply in subsequent years to this scholarship or another CEMF scholarship.
- 4. All applications must be submitted through the Dean's office, and **MUST** be accompanied by the Dean's (or his/her delegate's) letter of support.
- 5. You must be a leader, a volunteer and an active person in your community and university. **Scholarships are awarded based primarily how you are involved in your own community and the leadership skills that you have demonstrated.** There is a special emphasis placed on leadership and encouraging others to contribute to bettering Canadian society. Professional experience will also be considered.
- 6. While all CEMF scholarship applicants must be in good academic standing, high marks are not a criterion.
- 7. You must be willing to act as a role model to encourage other women to pursue and continue a career in engineering; scholarship recipients must give at least two presentations to high school level students using the presentation prepared for this scholarship application.
- 8. You must give permission for your photo and name to be used by CEMF for scholarship promotional purposes.
- 9. You must have 100 per cent completed the application requirements listed below and submitted them by the stated deadline.

10. You are aware this is a competition and a Judging Panel will use specific guidelines to select the recipients (see below). Judges reserve the right not to issue any scholarships in any given year depending on the quality of the applications. The decisions of the judges are final.
11. Applicants should be aware that recipient resumes/CVs and scholarship application documentation may be used for recruitment purposes.

READY, SET – GO!!

- Informational letters and transcripts must be typed and double-spaced in 12-point Times New Roman font.
- The **entire** application is to be provided, including original signed documents, in both hard copy AND electronic format on a Windows 7 Platform CD, DVD or Memory Stick. The quality of both hard copy and electronic copy are scored, so present both in a well-organized and complete format.*

**The only exceptions are the reference letters or letter from the Dean, as those providing this information may not want the applicant to see it in advance. In this case, the letter may be mailed to CEMF directly or signed, scanned and emailed. This letter must be received by the deadline, and CEMF will scan the document for the judges.*

APPLICATION DOCUMENTS

1. **The Letter of Support from Dean and his/her Role:** The Dean's office is responsible for reviewing and giving final approval for your application via a Letter of Support. This letter must be submitted with your application, by deadline. It should state that the Dean or delegate has reviewed all completed scholarship application documents. Suggested criteria for approbation of candidates by Deans or their appointed delegates include :
 - Actively participates in extracurricular activities and demonstrates leadership skills;
 - Is a well-rounded individual;
 - Participates in public duties, community and volunteer work;
 - Has good interpersonal and communication skills;
 - Has an interest in education;
 - Displays curiosity, perseverance, creativity, problem-solving skills and bias for action;
 - Meets the academic standards of the university faculty;
 - Is a full-time Masters student, and is registered P.Eng, or has E.I.T. status
2. **Applicant Declaration:** Print and complete the Applicant Declaration at the bottom of this document, ensuring it is signed for your hard copy and electronic submission. Scan this document for your CD, DVD or Flash Drive.

3. **Application Form:** Print and complete the Application Form at the bottom of this document, ensuring it is signed for your hard copy and electronic submission. Scan this document for your CD, DVD or Flash Drive.
4. **Informational Letter:** Write an Informational Letter, no longer than four pages, in proper business format and address to the **CEMF and CEMF Judging Panel**. This letter should include:
 - A description of why you think your extracurricular activities make you a strong role model for other young women in engineering and what you have learned from your experiences.
 - Why you are a leader and an ambassador for the profession.
 - A **brief** outline of your academic curriculum (what you are studying, your research, undergraduate degrees, etc.) and how your professional experience makes you a leader **without repeating your CV!** Do not send us your academic grades; the scholarship is not based on academic achievements.
 - A list of awards received, including other scholarships, honours and recognitions. Applicants must be prepared to provide proof of any listed activity or awards if asked by the judges (i.e. the phone number of a coach, a photocopy of a certificate, etc.)
 - Tell us about yourself: your hobbies, membership in groups, organizations, athletic and cultural achievements, and what kind of person you are.
5. **Extracurricular Activities:** Using the chart provided at the end of this document as an example, create a list or chart showing your involvement in community and extracurricular activities. Your list should include your role, duration of the activity, frequency of the activity and any awards or recognitions you have received. Applicants must be prepared to provide proof of any listed activity or awards if asked by the judges (i.e. the phone number of a coach, a photocopy of a certificate, etc.)
6. **Resume/Curriculum Vitae:** Attach your CV to your Informational Letter.
7. **A Colour Photograph:** This will not be sent to the Judging Panel, but in the event you are selected to receive this scholarship, it will be used for promotional purposes so make sure it is a photo you like!
8. **Reference Letters:** Using the form at the bottom of this document, supply two letters of reference. If you have engineering work experience, one **must** be from an employer – if you do not, then that reference must be from someone who has witnessed your involvement in extracurricular activities **not** affiliated with your university.

The second reference **must** be from your immediate faculty supervisor. Each reference must use the scholarship reference form and these forms must be submitted directly to the Dean's office, and are to be included with your submission to CEMF.

9. **Proof of Citizenship:** Include a photocopy of your birth certificate or proof of Canadian citizenship, or a photocopy of your Permanent Resident Card. Again, these documents will not be sent to the judges as they are for qualification purposes only.
10. **Presentation:** Create a Power Point Presentation **geared to a high school level audience**, with a text transcript of what you will be saying while giving your presentation either in the Notes section of the Power Point or as a separate Word document. At the end, include a bibliography of all your sources. Your entire presentation time should not exceed 20 – 30 minutes.

Presentation: *Why I became an engineer*

Should you receive this scholarship, this is the presentation you will give. Ensure it is unique, exciting and inspiring – this is meant to make your high school level audience *want* to enroll in engineering at university.

Through this creative and imaginative presentation, you must cover at least the following:

- Your passion for your chosen field of engineering and what influenced you most to choose this profession;
- The social responsibility of engineers including an explanation on how the profession is self-regulating;
- A demonstration of an engineering principle that will intrigue and motivate the audience while at the same time demonstrating the practical application of engineering to solve a problem. It should engage members of the audience. (You will be filming this portion of your presentation as well, see number 11 below).
- Whatever additional topics you consider essential to create a genuine and lasting interest in engineering on the part of your audience.

Don't forget to include the text transcript of what you are going to say as you deliver your presentation in the Notes section of the PPT or in a Word document.

11. **Video Clip of Your Engineering Principle Demonstration:** We want to see this part of your PPT presentation live. You do not have to film your entire presentation JUST the portion of you doing your demonstration of the engineering principle. It must be a short 5 -10 minute movie in WMV format, ***compressed to no more than 100 MB***, of yourself ***in front of a live audience*** demonstrating the interactive part of the above presentation (Bullet three above). **While professional quality is not expected, the movie should be a high standard production, not amateur; this is a heavily weighted judging component.**

JUDGING CRITERIA & AWARD ALLOTMENT REQUIREMENTS

A Judging Panel appointed by CEMF will select the winners, with the judges being both professional engineers and non-engineers from across Canada, when possible and fully bilingual if required.

The committee's assessment will be based on all of the documents and information provided by the applicant. Any application that is incomplete in any way will be rejected prior to judging and CEMF will inform the applicant of the disqualification. Another application from that student will not be accepted until the following year.

All decisions of the judges are final.

Judging will be based on the following criteria:

- a. Effectiveness of your Power Point presentation **(30%)**;
- b. Effectiveness of your short Demonstration of an Engineering Principle Movie Clip **(15%)**;
- c. Informational letter written by you (Application Document #4) about your professional, volunteer, extracurricular and role model activities, etc. **(10%)**;
- d. Scope of community involvement and extracurricular activities that demonstrate leadership and outreach interests **(15%)**;
- e. Professional achievements through research and work experience **(10%)**;
- f. Achievements and leadership potential as perceived through the two reference letters and Dean's Letter of Support on provided forms **(10%)**;
- g. Overall quality of your application, **both** electronic and hardcopy **(10%)**.

Judges will base a large part of their assessment on the presentation – it must be unique, interesting and convincing.

YOU ARE A WINNER!

In April of the year of applying, the judges will inform CEMF of the selected recipient of the scholarship. CEMF will contact you using the permanent contact information provided on your application form.

Successful applicants will be paid in two installments. Failure to meet any of these requirements by the set deadlines will result in the scholarship installments being withdrawn. Documentation may be sent in earlier than the set deadlines but not later.

The first installment of **\$6,000** upon provision of required documentation on or by **October 15, 2015** as set out below:

1. Prior to payment of the first installment, a letter from your faculty supervisor confirming your continued enrolment in your Masters engineering program.

The second installment of **\$4,000** will be provided once all the following requirements have been met by the set deadlines as set out below:

1. You must have made your two presentations to high school level audiences and handed out the *Presentation Questionnaire* for your audiences to complete (the *Questionnaire* will be provided to you by CEMF). Those *Questionnaires* are to be collected at the end of your presentations and put **in a sealed envelope with the flap signed by the attending teacher or group leader**. The attending teacher or group leader at both presentations must provide a signed letter stating you made your presentation to a high school level audience and that they signed the questionnaire envelope. **These letters and questionnaires must be provided to CEMF on or before June 30, 2016.**
2. A written update of community and/or extra-curricular involvement demonstrating leadership qualities and outreach activities **to be received by CEMF on or before October 15, 2016.**
3. Proof of continued enrolment in the Master's program or successful completion thereof **received by CEMF by October 15, 2016.**

Scholarship funds may be used by the winners as they wish!

CEMF will guide you through the process, inform you if you are invited to attend our Awards Luncheon and help make travel arrangements, will send you a copy of the press release and winners' brochure and make all efforts to support your future career in engineering. Your photo, university and year of study will be posted on the website.

APPLY NOW!

Double-Check – Do you have all the documents in hardcopy and on CD, DVD or Memory Stick?

All applications must be submitted to your Dean's office who must submit all applications directly to:

The Canadian Engineering Memorial Foundation
Rona Hatt Master's in Chemical Engineering Scholarship
P. O. Box 370, 3-247 Barr Street
Renfrew, Ontario K7V 4A6

All application packages must be Post-Marked or Courier Date-Stamped no later than Midnight Friday, January 16, 2015.



APPLICANT DECLARATION

Before completing and submitting my application for the CEMF Masters in Chemical Engineering Scholarship and this Applicant Declaration, I declare that:

1. I was given the opportunity to seek independent legal advice regarding the terms and conditions of this scholarship and the Applicant Declaration and either waived the opportunity to seek independent legal advice or did indeed seek independent legal advice and have made a conscientious and informed decision to accept the terms and conditions;
2. I have personally written my application, prepared the CD/DVD/Memory Stick presentation, addressed all required issues fully and completely and that, to the best of my knowledge, the information provided in this application is true;
3. I am a full-time student pursuing my Masters in chemical engineering at the named Canadian university;
4. If awarded the scholarship I agree to arrange to genuinely deliver my proposed presentation to at least two high school audiences with appreciable attendance of students prior to June 30, 2016 and provide the Questionnaires in a signed, sealed envelope plus the letter of proof of presentation to CEMF before **June 30, 2016**;
5. If awarded the scholarship I agree to provide my SIN Number to CEMF for Income Tax purposes.
6. As a recipient of the award and as a condition of receiving the first installment I understand and conscientiously accept that CEMF will rescind its contract with me and withdraw this scholarship if I breach any of the following obligations:
 - If I fail to continue to act as an ambassador in the field of engineering and to serve as a role model for other young women to encourage them to become professional engineers;
 - If any common law fraud, fraud in equity, negligent or innocent misrepresentations in my application and within the Declaration are uncovered;
 - If inconsistencies in character, leadership skills and commitment to the goals and objectives of CEMF are uncovered in contradiction to what I, or any of my references, have represented in my application;

- If I make disparaging, condescending or uncivil remarks and comments about CEMF, its staff and members;
 - If I fail to provide a letter to CEMF by **October 15, 2015** confirming my full-time enrolment in a chemical engineering Master’s program from a Professor, Dean or Department Head;
 - If I fail to continue to act as an ambassador in the field of engineering and to serve as a role model for other young women to encourage them to become professional engineers;
 - If I fail to provide the following to CEMF by **October 15, 2016**:
 - A. A written update of community and/or extracurricular involvement demonstrating leadership qualities and volunteerism.
 - B. A letter confirming my continued enrolment in an Masters of chemical engineering program that proves promotion to the next year or term of engineering study from a Dean, Professor or Department Head, or proof of successful graduation from the program.
7. Should I fail to meet any of the requirements or deadlines above, CEMF has the right to rescind the contract and pull any remaining scholarship payments.
 8. As a recipient of the award, even after the full award is paid out to me by CEMF, I have a continuous obligation to help fulfill the mandate of CEMF by actively promoting engineering as a career choice for women and for young people in general. CEMF reserves the right to sever all ties with me should I breach this obligation.
 9. I agree to allow my name, photograph, presentation and study plans to be released publicly if I receive a scholarship.
 10. I agree that information regarding any reason for the scholarship monies being rescinded as listed above, may be shared with other involved parties who may have sponsored or supported CEMF and/or the scholarship.
 11. My CV and scholarship application documentation may be used by CEMF for recruitment purposes.

.....
Signature of Applicant

.....
Date

.....
Witness Name/Signature/Address

.....
Date

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CEMF MASTERS IN CHEMICAL ENGINEERING SCHOLARSHIP APPLICATION FORM

Applicant's Name: _____

Permanent Mailing Address (Home): _____

Applicant's Telephone No: _____ (The number where you can be reached should you win the award)

Applicant's Email: _____

Other Phone or Contact: _____ (an alternate number where you can be reached, please indicate who's number this is, i.e. cell phone; parents, etc.)

University: _____ Program: _____

Specialty (Research): _____

Expected Date of Graduation: _____ Year of Study: _____

Signed by: _____ Date: _____
(Dean of Engineering)

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SCHOLARSHIP REFERENCE FORM / FORMULAIRE DE RÉFÉRENCES

Applicant's Name / *Nom de la candidate* :

Name of the Referee/Reference / *Nom du répondant/référence* :

Title / *Titre* :

Organization or Institution /
Organisme ou établissement :

Full Mailing Address & Telephone Number / *Adresse postale au complet et numéro de téléphone* :

Completion of this recommendation form is a necessary part of the application process for the Canadian Engineering Memorial Foundation Scholarships.

The Judging Panel of the Canadian Engineering Memorial Foundation places a great deal of importance on your confidential recommendation. We realize this requires time and effort on your part and we greatly appreciate your assistance.

A prompt return to the Office of the Dean of Engineering at the University where the applicant is registered is important.

If possible, please type or print your responses.

Le processus d'application pour les bourses de la Fondation commémorative du génie canadien exige que ce formulaire de recommandation soit complété.

Le comité de sélection de la Fondation commémorative du génie canadien donne beaucoup de poids à ces recommandations. Nous comprenons le temps et l'effort que cette démarche peut nécessiter et nous apprécions votre coopération.

Il est important de retourner promptement vos réponses au bureau du doyen de génie de l'université où la candidate est inscrite.

Si possible, dactylographier ou écrire vos réponses en caractères d'imprimerie.

How long have you known the Applicant and in what capacity? / *Depuis combien de temps connaissez-vous la candidate, et à quel titre?*

What, in your opinion, differentiates this Applicant from her peers? / *D'après vous, qu'est-ce qui différencie cette candidate de ses pairs?*

Comment on Applicant's leadership potential, organizational and motivation skills. / *Veillez commenter les qualités leadership, et les talents d'organisation et de motivation de la candidate.*

Comment on the Applicant's communication and interpersonal skills, and ability to work with others. **Specifically provide an assessment of the Applicants teaching skills** / *Veillez commenter les compétences interpersonnelles de la candidate, son habileté à communiquer et à travailler en groupe.*

Comment on the Applicant's analytical skills, creativity, curiosity, perseverance, problem-solving and "doing". / *Veillez commenter les talents analytiques, la créativité, la curiosité, la persévérance, l'habileté à résoudre des problèmes et le penchant pour l'action de la candidate.*

When you compare this Applicant to other students at her level you have taught, led, guided, employed, how does she compare overall. / *Lorsque vous comparez cette candidate à d'autres étudiant(e)s du même niveau auxquels vous avez enseigné, que vous avez dirigés, guidés, employés, comment se compare-t-elle en général?*

Exceptional/Unique <i>Exceptionnelle/unique</i>	Above Average <i>Au dessus de la moyenne</i>	Average <i>Dans la moyenne</i>	Unable to Rank <i>Incapable de la classifier</i>
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Feel free to provide any further comments that you feel would aid the Judging Panel in the evaluation of the Applicant. Additional pages may be attached. / *N'hésitez pas à fournir des commentaires supplémentaires qui assisteraient le comité de sélection dans l'évaluation de la candidate. Vous pouvez ajouter des pages additionnelles.*

Signature of Referee

Date

Signature du répondant



Sample Applicant Information on Community, Extracurricular and Sports Activities

Name of Applicant: _____

University: _____ Program: _____

Year	Community Activities	Timing	Awards/Recognition (Note)
2012	Community theatre group	2 plays. Practice 2 nights per week	
2012	Festival – volunteer at BBQ stand	Evenings one week and one Saturday	
2013	Guide leader	Weekly plus one week Summer Camp	
2011-present	Took advanced art classes in Life Drawing	Every Saturday morning	
2014	Volunteer at Seniors’ home	3 Saturdays	Given plaque from Senior Citizen’s home
	Extra-curricular, including Sports Activities		
2012	Soccer – High School	Weekly practice & games during school year	Made Team Captain
2013	Secretary of High School Student Council	Weekly meeting during year plus preparation. Help organize activities	
2008-present	On community Soccer Team	Weekly practice & games during summer	
2014	University Debating Team	Weekly practice/competition	2012 Ontario Champs