



VALE UNDERGRADUATE ENGINEERING SCHOLARSHIPS

APPLICATION INFORMATION AND CRITERIA

ABOUT THE VALE UNDERGRADUATE ENGINEERING SCHOLARSHIPS

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 on December 6, 1989.

Each year, in conjunction with CEMF, Vale offers three \$10,000 scholarships to women enrolled full-time in an accredited undergraduate program at a Canadian university in any field of engineering who have an interest in mining, metallurgical or related field and hope to use their engineering expertise to work in the Canadian mining industry.

As well, this scholarship may come with a summer job opportunity at a Vale facility at Vale's discretion. With numerous locations across Canada, there is an opportunity for winners to get real work experience close to home.

Applicants should be aware they will be required to pass a job interview and be available for a potential summer job as a condition of this scholarship.

This scholarship is meant to encourage women to pursue a career in the mining industry and have them act as ambassadors to promote the industry's cutting edge technology and opportunities for creativity.

Leadership, extracurricular activities, volunteer work and the ability to act as a role model for younger women are all criteria for this scholarship.

Applicants must be willing to act as role models and to promote engineering in the mining industry particularly to young women. The scholarship recipient will be required to make at least one presentation to students at the high school level.

Along with the financial award, there are many other great reasons for applying for this scholarship:

1. **Summer Job Opportunity.** At Vale’s discretion, a summer job opportunity may be offered. This will provide real work experience and skill-building along with establishing a relationship with Vale, an international leading producer of nickel, copper, cobalt and precious metals. **Applicants should be aware they will be required to pass a job interview with Vale and be available for the potential summer job as a condition of this scholarship.**
- **Promotion and Recognition.** Those selected for a Vale scholarship are featured in an annual Winners Brochure 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.** Recipients may be invited to attend the CEMF Awards Luncheon to be presented with their award. This annual event is held at the AGM of Engineers Canada in various national locations. Travel and accommodation may be provided by Vale, and the winners are given an opportunity to meet and socialize with prominent members of the industry and leaders in engineering innovation. As well, the CEMF Board of Directors is made up of professional engineers who are available to advise and/or mentor winners in pursuing a successful career.
- **Recipients Can Use the Monies in Any Capacity.** Unlike many other scholarships, CEMF does not require students 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 mining and metallurgical engineering and serve as role models for other young women to encourage them to become professional engineers.
- **A Scholarship for Leaders.** While recognizing academic excellence is important, the Vale Undergraduate Engineering Scholarships are not awarded based on academic achievement. Rather, the focus is on female students, with an interest in working in the Canadian mining industry, who are proven leaders in their community and who have dedicated time to extra-curricular 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 & ELIGIBILITY REQUIREMENTS

Applicants to these scholarships should review the eligibility requirements listed below closely along with using 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 have a Permanent Resident card.
2. You must be a female undergraduate student enrolled full-time in an accredited Canadian engineering program at a Canadian university. Visit the Engineers Canada website at www.engineerscanada.ca where all accredited Canadian university engineering programs are listed to check your eligibility.
3. While there is no limitation on the number of applications from any university or program, you **CANNOT** apply to more than one Vale or 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. For four year programs: you must be in your first year, second year or the first term of your third year, prior to the January deadline.
5. For five year programs: you must be in first year, second year, third year or the first term of your fourth year, prior to the January deadline.
6. You must be a leader, a volunteer and an active person in your community and/or university. **Scholarships are awarded based primarily on how you are involved in your own community and the leadership skills that you have demonstrated.** There is a special emphasis is placed on leadership and encouraging others to contribute to bettering Canadian society.
7. **Grades do not constitute a criterion for the award of this scholarship.**
8. You must be willing to act as a role model to encourage other women to pursue a career in engineering; scholarship recipients must give a presentation to a high-school level audience using the presentation prepared for this application. Your ability to effectively communicate with these younger students will be a primary criterion.
9. You must give permission for your photo and name to be used by Vale and CEMF for scholarship promotional purposes.
10. You must have 100 per cent completed the application requirements listed below and submitted them by the stated deadline.
11. 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. All decisions of the judges are final.

READY, SET – GO!!

- All Word documents 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 XP Platform CD, DVD or Memory Stick. 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 Letter and Letter of Support, 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, this letter must be received by the deadline, and CEMF will scan the document for the judges.*

APPLICATION DOCUMENTS

1. **Applicant Declaration:** Print and complete the Applicant Declaration at the bottom of this document, ensuring it is signed for your hardcopy and electronic submission. Scan this document for your CD/DVD or Memory Stick.
2. **Application Form:** Print and complete the Application Form at the bottom of this document, ensuring it is signed for your hardcopy and electronic submission. Scan this document for your CD or Flash Drive.
3. **Informational Letter:** Write an informational letter, no longer than two pages, in proper business format and address to the **CEMF and CEMF Judging Committee**. Introduce yourself, state why you think you would be a good ambassador promoting engineering to women as a career, outlining your interest in working in the mining industry. Tell us how you think your extracurricular activities make you a strong role model. Tell us about yourself: your hobbies, membership in groups, organizations, athletic and cultural achievements, and what kind of person you are.
4. **Extra-Curricular Activities:** Using the chart provided at the end of this document, 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.)
5. **References:** Using the form at the bottom of this document, supply a letter of reference from someone who can speak directly to your involvement in extra-curricular activities **not** affiliated with your university. Also provide a name, address, email and phone number of a second personal reference that the

Committee may contact if required, who can attest to your extracurricular involvement and/or leadership qualities. These can be mailed directly to CEMF if so desired.

6. **Letter of Support:** Provide a Letter of Support from the Dean, Assistant or Associate Dean, Head of Engineering Department or Engineering Professor. This can be mailed directly to CEMF if so desired.
7. **Proof of Citizenship:** Include a photocopy of your birth certificate or proof of Canadian citizenship, or a photocopy of your Permanent Resident Card. This document will not be sent to the judges as it is for qualification purposes only.
8. **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!
9. **Voice Sound Clip:** In a short voice recording (two minutes maximum), explain your passion for engineering, in particular outline your interest in the mining, metallurgical or related field. **THIS CLIP MUST BE PROVIDED IN WAV-FORMAT ONLY.** Include a written transcript of your voice clip.
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 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 to High School Level Students

Why I chose to become an engineer

Should you receive this scholarship, this is the presentation you will give to a high school level audience. Ensure it is unique, exciting and inspiring – this is meant to motivate your high school level audience to pursue a career in the mining and metallurgical industry.

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

- Your passion for mining engineering and the industry and what influenced you most to choose this profession;
- The variety of careers and opportunities for engineers;
- The social responsibility of engineers including a general explanation on how the profession is self-regulating;
- A demonstration of a mining engineering principle that will intrigue and motivate the audience while at the same time demonstrating the practical

application of engineering to solving a problem. You should engage members of the audience in this demonstration.

- Whatever additional topics you consider essential to create a genuine and lasting interest in the mining industry on the part of your high school level audience.
- Presentations must include the transcript of what you are going to say as you deliver your presentation in the Notes section of the Power Point or as a separate Word document.
- There should be a bibliography at the end listing sources used.

JUDGING CRITERIA & AWARD ALLOTMENT REQUIREMENTS

A judging committee appointed by CEMF will select the winners, with the judges being both professional engineers and non-engineers when possible.

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. Quality and creativity of your presentation as demonstrated in the Power Point Presentation and side speaking notes **(30%)**;
- b. Extent and scope of the applicant's involvement in the community and extracurricular activities as outlined in the Community Involvement Chart **(25%)**;
- c. Assessment of your passion for engineering, in particular mining engineering as demonstrated in your voice clip **(15%)**;
- d. Quality of Informational Letter Letter written by you about your volunteer, extracurricular, ambassador qualities, etc. **(10%)**;
- e. Content of the Reference Letter and the Letter of Support **(10%)**
- f. 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 convincingly encourage young women in the audience that engineering, and mining engineering, is a career path they should follow and enroll in an accredited Canadian university engineering program.

INTERVIEW

Should you be selected as the top applicant for this scholarship, CEMF will connect you with Vale so they can organize an interview with you. You should prepare for this interview as you would for any professional career opportunity. Succeeding at this interview will be the final determining factor in receiving the scholarship.

YOU ARE A WINNER!

In April of the year of applying, the judges will inform CEMF of the selected recipient of the scholarship(s).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 the following 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.

First installment of **\$4,000** upon provision of required documentation by **October 15, 2012** as set out below:

1. Prior to payment of the first installment, a letter confirming your continued **enrolment** in an engineering program that proves promotion to the next year or term of engineering study. This letter must come from a Professor, Dean or from the administrative office of your program. This does not mean a letter simply saying you were accepted back into engineering – rather it should state that you have been accepted back into engineering **AND** have been enrolled in the program.
2. You must have contacted Vale (CEMF will provide you the contact information) and made summer job arrangements. If a summer job offer is not made for 2012, Vale must release you, by letter, from the obligation for the year.

The **second installment of \$6,000** 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 presentation to a high school level audience and handed out the *Presentation Questionnaire* for your audience to complete (the *Questionnaire* will be provided to you by CEMF). Those *Questionnaires* are to be collected at the end of your presentation and put **in a sealed envelope with the flap signed by the attending teacher or group leader**. The attending teacher or group leader must also provide a signed letter stating you made your presentation to a high school level audience and that they signed the questionnaire envelope. **This letter and the questionnaires must be provided to CEMF on or before June 30, 2013.**
1. A written update of community and/or extra-curricular involvement demonstrating leadership qualities received by CEMF **by October 15, 2013.**

2. Proof of promotion to the next year of engineering study (again, showing you have returned to the classroom) or have graduated with your degree received by CEMF by **October 15 , 2013**.
3. A letter from Vale regarding the completion of your summer job, or if not completed, proof the job position is organized and in place, or a letter from them releasing you from that obligation by **October 15, 2013**.

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 the awards presentation 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 by all applicants directly to:

The Canadian Engineering Memorial Foundation
Vale Undergraduate Engineering Scholarships
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 13, 2012.



APPLICANT DECLARATION

I have read the instructions, and hereby make application for a Vale Undergraduate Engineering Scholarship, and I declare:

1. That 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;
2. That I am a full-time student in engineering at the named university;
3. That if awarded a scholarship I agree to arrange to deliver my proposed presentation to at least one high school audience **prior to June 30, 2013** and to provide the *Questionnaires* in a signed, sealed envelope plus the letter of proof of presentation to **CEMF on or before June 30, 2013**;
4. That if awarded a scholarship I agree to provide my SIN Number to CEMF for Income Tax Purposes.
5. That, as a recipient of the award and as a condition of receiving the first installment, I will provide a letter to CEMF **by October 15, 2012** confirming my continued enrolment in an engineering program that proves promotion to the next year or term of engineering study from a Professor, Dean or from the administrative office of my program.
6. That, as a recipient of the award, and as a condition of receiving the second installment I will provide the following documents to CEMF by **October 15, 2013**:
 - a. A written update of community and/or extra-curricular involvement demonstrating leadership qualities.
 - b. A letter confirming my continued enrolment in an engineering program that proves promotion to the next year or term of engineering study from a Dean, Professor or from the administrative office of my program, or proof of graduation from the program.
 - c. A letter stating I have completed my summer job placement with Vale or been released from the obligation in accordance with the first and second installment requirements and provided correspondence from Vale as proof of completion or release by **October 15, 2013**.
7. That, as a recipient of the award, I agree to help fulfill the mandate of the Canadian Engineering Memorial Foundation by actively promoting engineering as a career choice for women and for young people in general and to continue to promote engineering careers in the mining industry specifically; and
8. That I agree to allow my name, photograph, presentation and study plans to be released publicly if I receive a scholarship.

Signature of applicant

Date



VALE UNDERGRADUATE 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: _____ Expected Date of Graduation: _____

Year of Study: _____

Signature: _____ Date: _____



Sample Applicant Information on Community, Extra-Curricular and Sports Activities

Name of Applicant: _____

University: _____ Program: _____

Year	Community Activities	Timing	Awards/Recognition (Note)
2009	Community theatre group	2 plays. Practice 2 nights per week	
2010	Festival – volunteer at BBQ stand	Evenings one week and one Saturday	
2011	Guide leader	Weekly plus one week Summer Camp	
2011	Took advanced art classes in Life Drawing	Every Saturday morning	
2011	Volunteer at Seniors’ home	3 Saturdays	Given plaque from Senior Citizen’s home
	Extra-curricular, including Sports Activities		
2009	Soccer – High School	Weekly practice & games during school year	Made Team Captain
2010	Secretary of High School Student Council	Weekly meeting during year plus preparation. Help organize activities	
2009-present	On community Soccer Team	Weekly practice & games during summer	
2011	University Debating Team	Weekly practice/competition	2010 Ontario Champs

(Sept. 2011)



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 Vale Scholarships.

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

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 confidentielles (votre recommandation compte pour 15% de la note totale). 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 Selection Committee 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