

### Overview

The SME Ph.D. Fellowship Grant (the “Fellowship”) is intended to provide financial support to qualified candidates with professional experience, and a desire to pursue an academic career, with the means of acquiring a doctoral degree in the field of Mining or Extractive Metallurgy/Mineral Processing (EM/MP) at a U.S. accredited university. Fellowship payment is made directly to the student.

Grants receiving complete funding from an individual, company or organization in any given year(s) may qualify for “naming rights” recognizing the individual, company or organization as the Grant underwriter.

### Timeline

The Fellowship adheres to the following timeline:

Date	Task
Dec. 1, 2022-Jan. 31, 2023	Applications accepted
March 1	Selection Committee begins review of applications
April/May	Interviews are conducted for top candidates
May 27	Final approval from SME & SMEF Boards
June 1	Fellowship awardees announced
August 15	First disbursement of Fellowship funds
SME Annual Conference	Recipient(s) recognized at various SME functions

### Qualifications

Fellowship applicants must meet the following criteria:

1. The Fellowship is strictly limited to graduate students who are currently enrolled or have been formally admitted in a U.S. academic institution and are/will be majoring in a Ph.D. or D. Engr. degree granting program with emphasis in Mining Engineering or EM/MP.
2. Must be a full-time graduate student during the duration of the Fellowship and demonstrate satisfactory progress towards degree completion with the intent of accepting a tenure-track academic position with emphasis in Mining Engineering or EM/MP.
3. Must be enrolled in degree granting program that requires an in-residence, doctoral-level research experience.
4. Candidates currently enrolled in a doctoral degree program must be in good academic standing, as defined by their university, at the time their application is submitted.
5. Applicants must sign a nonbinding declaration that he/she understands that the Fellowship is intended to support a candidate who is committed to pursuing a professional career as a tenure-track Assistant or Associate Professor as stated above.
6. Both international and U.S. citizens are eligible to apply for the Fellowship.
7. Must be an SME member in good standing.

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<b>Application Requirements</b>	<p>Interested candidates will submit the following information:</p> <ul style="list-style-type: none"><li>○ General application form (<i>last part of this document</i>)</li><li>○ Curriculum vitae</li><li>○ Proof of graduate enrollment</li><li>○ Official academic transcript(s) in English (scanned copies are acceptable)</li><li>○ 3 letters of recommendation (including one from the student's academic advisor). Such letters should reference previous academic performance and professional experience.</li><li>○ Proof of visa status (if applicable)</li></ul> <p><b>Candidate's packet of information may be submitted to:</b> <b>SME Academic Grant Program</b> <b>12999 E. Adam Aircraft Circle</b> <b>Englewood, CO 80112-4167</b></p> <p><b>-or-</b></p> <p><b>scan all documents (8.5 x 11) and email to:</b> <a href="mailto:AcademicGrants@smenet.org">AcademicGrants@smenet.org</a></p>
<b>Recipient Selection</b>	<p>The Grant Selection Committee will conduct: (1) a review of applications, and (2) a formal interview of the top candidates. Once the final candidates have been selected, their names will be submitted to the SME Board of Directors and the SME Foundation Board of Trustees for final approval. Results of review and rankings are strictly confidential and will not be released.</p>
<b>Award</b>	<p>The Ph.D. Fellowship is intended to cover the cost of tuition, fees, books, and other school related expenses, as well as a stipend for living expenses, at a rate of \$60,000 per year for a maximum of 4 years. Successive grant years are not automatically renewed; awardees wishing to continue the Grant for successive years must submit a written statement of intent along with their annual report by June 1. The annual report and statement of intent will be reviewed by the Committee; the recipient's eligibility to continue will be verified and conveyed to the recipient. The intent of the Grant is to provide the recipient with support towards achieving a Ph.D. and securing a faculty placement. The Fellowship Grant is not extendable beyond the recipient's graduation and earning of a Ph.D., thereby fulfilling the mission and intent of the Grant.</p>
<b>Recipient Obligations</b>	<p>At the conclusion of each academic year, the awardee will submit an annual report that summarizes the following activities from the preceding year:</p> <ul style="list-style-type: none"><li>○ Courses taken (along with credit hours and grades earned).</li><li>○ Statement of research and scholarly activities (publications and presentations).</li><li>○ Statement of teaching activities.</li><li>○ Major accomplishments, awards and milestones.</li><li>○ Letter of intent to continue with the next year of the program.</li></ul>
<b>Questions</b>	<p>Questions regarding the SME Ph.D. Fellowship may be directed via email to <a href="mailto:AcademicGrants@smenet.org">AcademicGrants@smenet.org</a>.</p>

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## **SOCIETY FOR MINING, METALLURGY & EXPLORATION INC.**

### **Ph.D. Fellowship Program Guidelines and Selection Criteria**

In accordance with its tactical mission, the SME Education Sustainability Committee (ESC) has sought to identify the prominent challenges threatening the long-term viability of U.S. academic programs offering degrees which emphasize Mining and Mineral Processing/Extractive Metallurgy, as well as formulate meaningful, actionable recommendations to mitigate these challenges. One of the paramount issues of immediate concern is the absence of a viable means (pipeline) to address the current number of faculty vacancies and the looming labor deficiencies associated with retirements over the next decade.

The challenges associated with faculty scarcity is cumulative and extends from recruiting appropriate candidates with a desire for pursuing a career in academia and the ability to successfully complete a Ph.D. degree, through the tenuous process of achieving tenure at a given academic program. To address this threat, SME and the SME Foundation are supporting a two-fold initiative: (1) the development of a 4-year graduate fellowship for qualified Ph.D. students who are committed to pursuing careers in academia and (2) the awarding of Career Development Grants intended to assist new faculty in establishing research and publication records necessary to achieve tenure and promotion.

This document provides an overview of the program guidelines and selection criteria for the SME Ph.D. Fellowship program:

#### Program Structure

This program is intended to provide financial support to qualified candidates with professional experience, and a desire to pursue an academic career, with the means of acquiring a doctoral degree in the field of Mining or Extractive Metallurgy/Mineral Processing (EM/MP) at a U.S. accredited university. The SME Ph.D. Fellowship (the "Fellowship") is intended to cover the cost of tuition, fees, books, and other school related expenses, as well as a stipend for living expenses, at a rate of \$60,000 per year for a maximum of 4 years. However, successive grant years are not automatically renewed.

Ultimately, the success of the Fellowship program will be measured by the number of doctoral students that succeed in finishing their degree programs, accept tenure-track academic positions at institutions with accredited mining or EM/MP engineering programs, and achieve tenure. While this is a long-term metric, specific stages of the program will be assessed annually, including the academic performance of Fellowship recipients, graduation rates relative to the time required for degree completion, and successful employment in an academic department.

#### Eligibility Guidelines

- The designated name of the award is the "SME Ph.D. Fellowship".
- The Fellowship is strictly limited to graduate students who are currently enrolled or have been formally accepted in a U.S. academic institution and are/will be majoring in a Ph.D. or D. Engr. degree granting program with emphasis in Mining Engineering or EM/MP.
- Applicants must be a full-time graduate student during the duration of the Fellowship and demonstrate satisfactory progress towards degree completion. The term "full-time" and "satisfactory progress" will be defined by the policies of their academic institution and annually verified and approved by SME.
- In addition, all applicants must be enrolled in degree granting program that require an in-residence, doctoral-level research experience in order to be deemed eligible. This requirement will effectively prohibit doctoral students who seek to earn their degrees on-line from qualifying for the Fellowship.
- Candidates currently enrolled in a doctoral degree program must be in good academic standing, as defined by their university, at the time their application is submitted.
- As part of the application process, potential applicants must sign a nonbinding declaration that he/she understands that the Fellowship is intended to support a candidate who is committed to pursuing a professional career as a tenure-track Assistant or Associate Professor at a U.S. academia institution with

accredited undergraduate degrees programs with emphasis in either mining engineering or EM/MP. This declaration does not, in any way, establish a legal obligation for the Fellowship recipient but is merely intended to clearly emphasize the program objectives.

- Both international and U.S. citizens are eligible to apply for the Fellowship. Responsibility for compliance with visa and immigration regulations regarding the ability to legally study and work in the U.S. is solely that of the Fellowship recipient. Proof of a valid student visa will be required for international students as part of the application process.
- Women and under-represented minorities are strongly encouraged to apply.
- Despite the program's objectives, SME is not responsible for the placement of Fellowship recipients upon the completion of their degree nor does SME in any way guarantee employment in an academic position upon graduation.
- The Fellowship is awarded entirely at the discretion of SME and the availability of funding. This includes any implied obligations associated with the continuation of Fellowship awards after the first year; successive grant years are not automatically renewed.

#### Recipient Obligations

- Fellowship recipients must remain in good academic standing and make satisfactory progress towards the completion of their degree, as defined by the policies of their University for a full-time graduate student.
- At the conclusion of each academic year, each awardee will submit an annual report by June 1<sup>st</sup> that summarizes the following activities from the preceding year:
  - Courses taken (along with credit hours and grades earned).
  - Statement of research and scholarly activities (publications and presentations).
  - Statement of teaching activities.
  - Major accomplishments, awards, and milestones.
  - Letter of intent to continue with the next year of the program.
- At the conclusion of each academic period (either semester or quarter), the student must also submit documentation to SME that shows academic performance for that period before the allocation of funds for the next proceeding period.
- For awardees wishing to continue the Fellowship in Years 2 through 4, a written statement of intent is required to be submitted to SME no later than June 1. This document provides confirmation that the student intends to continue their participation in the Fellowship program for the next 12-month period. As noted previously, continued funding after the first year shall be entirely at the discretion of SME. The Fellowship Grant is not extendable beyond the recipient's graduation and earning of a Ph.D., thereby fulfilling the mission and intent of the Grant.
- Successive grant years are not automatically renewed; awardees wishing to continue the Grant for successive years must submit a written statement of intent along with their annual report by June 1 (see above). The annual report and statement of intent will be reviewed by the Committee; the recipient's eligibility to continue will be verified and conveyed to the recipient. The intent of the Grant is to provide the recipient with support towards achieving a Ph.D. and securing a faculty placement. It is emphasized that the Fellowship Grant is not extendable beyond the recipient's graduation and earning of a Ph.D.
- In the event a Fellowship recipient fails to maintain good academic standing or achieve satisfactory progress in a given academic period (semester or quarter), a one semester/quarter grace period will be automatically given to rectify the situation. If the student's performance is still unsatisfactory at the conclusion of the grace period, the Fellowship will be forfeited. The student may appeal this forfeiture to the SME Fellowship & Career Development Grant Selection Committee (the "Committee") which may extend the grace period by another semester/quarter if the Committee believes it is warranted. The Committee's decision of whether to extend this additional grace period is final.
- In the event a Fellowship recipient goes on and off academic probation repeatedly, each grace period will be viewed as an independent event as long as the student is making satisfactory progress towards degree completion in the opinion of the Committee.
- Regardless of the reason, if a Fellowship recipient withdraws from the program or forfeits the Fellowship because of performance, the Fellowship will be offered to another qualified applicant during the next funding cycle.

- Each Fellowship recipient must be a member of SME and is strongly encouraged to attend the SME Annual Meeting and participate in the Foundation Dinner, Trustees meeting, and the Educators Forum. Recipients will be strongly encouraged to also participate in conference programming and become involved in professional activities and service.

#### Fellowship Disbursement

- As with other SME student scholarships, the Fellowship will be disbursed directly to the recipient in order to mitigate restrictions on how these funds are used and the imposition of administrative fees levied by a university. As structured, no administrative fees will be allocated from the Fellowship to the student's home department or university.
- Fellowship funds will be disbursed in equal amounts prior to the beginning of each academic period (twice per year for University programs on a semester schedule and three times per year for those on a quarterly schedule).
- For continuing Fellowship recipients (graduate recipients rolling from one year to the next), confirmation of academic standing and compliance with the terms of the Fellowship will need to be performed prior to the disbursement of funds in subsequent academic periods.
- While the Fellowship is intended to cover the cost of tuition, fees, books, and other school-related expenses, the individual financial needs and circumstances of graduate students vary widely. As such, a given recipient may use these funds for living expenses, insurance, research, child care, and "other expenses that are not directly required for enrollment". By Federal regulation, these latter expenses may be considered as non-qualifying and subject to federal tax. It will be the responsibility of the Fellowship recipients to comply with these IRS regulations and seek professional assistance if necessary. Under no circumstances shall SME or the SME Foundation assume any tax liabilities that stem from the awarding of these Fellowships. Whenever possible, SME will provide information to Fellowship recipients on the potential tax ramifications incurred as a consequence of accepting the grant (IRS Publication 970) but will not assume any substantive role or responsibility for this tax liability.
- As previously outlined, SME reserves the right to reduce or eliminate the financial allotment associated with each Fellowship for any reason, including insufficient resources to fund the Fellowship obligations.

#### Application Process

- Notice about the Fellowship will be distributed through *Mining Engineering* magazine, SME eNews, email correspondence, the SME website, and other appropriate social media.
- Interested candidates will submit a hard-copy application package through the mail, or a digital copy via email, that includes the following information:
  - General Application Form.
  - Curriculum Vitae.
  - Proof of Graduate Enrollment.
  - Official academic transcript(s) in English (scanned copies are acceptable).
  - 3 Letters of Recommendation (including one from the student's academic advisor). Such letters should reference previous academic performance and professional experience.
  - Proof of Visa Status (if applicable).
- SME and the Selection Committee reserve the right to request additional information from applicants as needed.
- The selection process is comprised of two fundamental stages; (1) committee review of applications, and (2) a formal interview of the top candidates. Once the final candidates have been selected, their names will be submitted to the SME Board of Directors and the SME Foundation Board of Trustees for final approval.
- Fellowship finalists will be subject to routine background and credit checks.
- Candidate selection will be performed by a simple majority vote of all participating members. In the event of a tie, the SME Foundation President will serve as the tie-breaker. The results of this voting process will be held in strictest confidence.
- The specific criteria used in the selection process will include but is not limited to the candidate's previous academic performance, professional experience, research/teaching interests and experience, potential to graduate, career interests/ambitions, and reputation.

- While it is imperative for the success of the program that the Fellowships are awarded to the best available candidates, the Committee will be cognizant of the distribution of awards between the two academic emphasis areas (Mining Engineering and EM/MP) and strive for an equitable balance between them.
- In the event that the Committee believes that the applicant pool does not possess one or more viable candidates, any given Fellowship can be withheld and not awarded in a given year.
- Verification of enrollment and other pertinent information for each of the Fellowship finalists will be performed by SME Staff.
- The selection process will be confidential.

#### Application Schedule

The application acceptance period will open December 1, 2022 and close January 31, 2023.

- Dec 1: Fellowship advertisement is released via the SME website, social media, electronic media, *Mining Engineering*, and email notifications to academic departments and student chapters.
- March 1: SME Fellowship & Career Grant Selection Committee begins review of applications.
- April/May: Interviews are conducted for top candidates.
- May 27: Final approval from SME and SME Foundation Boards.
- June 1: Fellowship Grant awardees are announced.
- August 15: First disbursement of Fellowship funds.

#### Questions

All communications and/or questions regarding the SME Ph.D. Fellowship Grant may be directed via email to [AcademicGrants@smenet.org](mailto:AcademicGrants@smenet.org).

Passport Number: \_\_\_\_\_ Date of Issue: \_\_\_\_\_ Date of Expiration: \_\_\_\_\_

## Academic Standing

For current PhD Students: How long have you been in the current institution: \_\_\_\_\_

Number of credit hours completed: \_\_\_\_\_

What is your status of progress towards your degree:

☐ Just started

☐ Completed qualifying exam, outcomes:

☐ Completed comprehensive exam (thesis proposal defense), outcomes:

☐ Thesis proposal approved (all but defense), outcomes: \_\_\_\_\_

How long before you can defend your thesis/dissertation: \_\_\_\_\_Years \_\_\_\_\_Months

Do you feel you have sufficient mentorship towards your thesis: Yes ☐ No ☐ Not sure ☐

Do you have financial support: Yes ☐ No ☐ (Note: Answering Yes does NOT disqualify the applicant)

**For prospective PhD Applicants:** Do you have admission for PhD program: Yes ☐ No ☐

**If No, You are not qualified to pursue this Fellowship.**

**If Yes,** please provide the details of the advisor, program/degree, and institution if different than above.



**What are your most critical challenges?**

**What are your short term career objectives?**

**What are your long term career objectives?**

**What are the motivating factors that are encouraging you to seek a career in academia?**

**Do you have a good feel on the general requirements necessary to achieve tenure as an Assistant/Associate Professor?**      Yes ☐      No ☐

Section II. Teaching:

Have you ever taught or were you a TA for a course? Yes ☐ No ☐ If Yes, please fill the following table.

Courses Taught:

#	Title:	University/Dept:	Explain duties:	Role <sup>1</sup>

Note: 1. define the role, i.e., instructor, grader, lab assistant, guest lecturer, etc.

Please explain your teaching philosophy:

### Section III. Research:

Areas of specialty or research interests:

Explain your current research (if started) or your intended research area:

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Statement of research philosophy:

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## Section IV. Publications:

Provide Totals and include a complete list in an appendix.

Category:	Totals:
Published books or book chapters	
Published peer reviewed journal papers	
Published conference papers	
Invited presentations	
Other presentations	

Note: the appendix should be a complete list including a description of your role as a co-author, e.g.: *Luttrell, G. H., Kiser, M., Yoon, R.-H., Noble, A., Rezaee, M., Bhagavatula, A. and Honaker, R.Q., 2019. A Field Survey of Rare Earth Element Concentrations in Process Streams Produced by Coal Preparation Plants in the Eastern United States. Journal of Mining, Metallurgy and Exploration 36(5), 889-902. Role: Provided funding and analytical support; 10% Responsibility. IF = ???.*

[illegible]

Identified issues in industry that you want to address in your research:

[illegible]

Section VI. Service Activities:

Professional society memberships:

Name of the Organization:	Service Period: MM/YY To YY/MM	Committees or Assignments:

Outreach activities:

Name of the Organization:	Time / Duration:	Description of Activities:

Other professional or public service activities? Please explain:

## Section VII. Planned Activities for the Grant:

What topic(s) you will be working on:

**Which mining sector will benefit from this study/work** (mark all that apply):

- ☐ Surface Mining      ☐ Underground Mining      ☐ Coal      ☐ Metal      ☐ Industrial Minerals  
☐ Mineral Processing      ☐ Health and Safety      ☐ Environmental  
☐ Other (specify): \_\_\_\_\_

**Anticipated results or outcomes and benefits to mining industry:**

**Do you anticipate that the SME PhD Fellowship will affect your current status and financial support?**    ☐ Yes    ☐ No

**If yes, please specify:**