Department of Geology and Geological Engineering  
South Dakota School of Mines  

Graduate Student Handbook (Draft): 2018-2019  

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GGE Faculty and Staff

**Department Administration**

- **Dr. Laurie Anderson**  
  *Department Head and Museum Director*  
  MI303

- **Cleo Heenan**  
  *Senior Secretary*  
  PRL112

**Geology Faculty**

(Professors)

- **Dr. Laurie Anderson**  
  *Paleobiology, Paleoecology, Taphonomy*  
  MI303

- **Dr. Edward Duke**  
  *Manager of Analytical Services, Petrology, Geochemistry, Remote Sensing*  
  PRL112

- **Dr. Timothy Masterlark**  
  *Graduate Program Director, Geophysics*  
  MI308

- **Dr. Maribeth Price**  
  *Dean of Graduate Education*  
  C2201

- **Dr. Nuri Uzunlar**  
  *Director BHNSFS*  
  MI306

(Associate Professor)

- **Dr. Darren Pagnac**  
  *Mammalian Paleontology, Paleoecology*  
  MI312

(Assistant Professors)

- **Dr. Zeynep Oner Baran**  
  *Basin analysis, Structural geology and tectonics, Extensional deformation*  
  MI312

- **Dr. Gokce Ustunisik**  
  *Igneous and Experimental Petrology, Planetary Petrology*  
  MI308

**Geological Engineering Faculty**

(Professor)

- **Dr. Larry Stetler**  
  *Geological Engineering, Sedimentology, Surface and Groundwater, Environmental Geology, Petroleum*  
  MI310

(Associate Professor)

- **Dr. Kurt Katzenstein**  
  *Geomechanics, Geological Engineering, InSAR*  
  MI316

- **Dr. Foster Sawyer**  
  *Sedimentology, Groundwater, Petroleum Geology*  
  MI318

(Assistant Professors)

- **Dr. Liangping Li**  
  *Groundwater, Geostatistics, Data Assimilation, Reservoir Modeling*  
  MI314

**Support Faculty and Staff**

- **Dr. Christopher Pellowski**  
  *Coordinator and Instructor, GGE/BHNSFS*  
  MI300

- **Mr. Curtis Price**  
  *Instructor, GIS*  
  MI315

- **Dr. William Roggenthen**  
  *Research Scientist IV, Geological Engineering*  
  MI304

- **Ms. Sally Shelton**  
  *Collections Manager, Museum of Geology*  
  MI300

- **Mr. Daniel Soeder**  
  *ERI Director*  
  MI315

- **Dr. Sui Tung**  
  *Research Scientist II, Geophysics*  
  MI327C

- **Dr. Caihong Zhang**  
  *Visiting Research Scientist, Geophysics*  
  MI327A

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*edited 13 September 2017*
Emeritus Faculty
Dr. Arden Davis  Geological Engineering: Groundwater, Environmental Contamination, Digital Modeling
Dr. James E. Fox  Geology: Curator of Invertebrate Paleontology, Sedimentology, Petroleum Geology, Invertebrate Paleontology
Dr. Alvis Lisenbee  Geology: Structural Geology
Dr. James E. Martin  Geology: Emeritus Curator Museum of Geology, Vertebrate Paleontology, Biostratigraphy
Dr. Colin J. Paterson  Geology: Economic Geology, Mineral Resources, Petrology
Dr. Perry H. Rahn  Geological Engineering: Hydrogeology, Environmental Geology

Adjunct Faculty
Anderson, Benton, Illes, McCormick, Roggenthen, Soeder

1 General Information
1.1 Acronyms
ACA Affordable Care Act
FERPA Family Educational Rights and Privacy Act
GDR Graduate Division Representative
GGE Department of Geology and Geological Engineering
GPA Grade Point Average
GRA Graduate Research Assistant
GTA Graduate Teaching Assistant
GPD Graduate Program Director
MI Mineral Industries Building
MP Major Professor
PDF Portable Document Format
POS Plan of Study
PRL Paleontology Research Laboratory
SDBOR South Dakota Board of Regents

1.2 Purpose
The Office of Graduate Education provides a broad framework of policies. The purpose of this document is to provide additional GGE Graduate Program-wide policies and description of overarching GGE expectations and outcomes (Section 3). Individual Major Professor (MP) expectations (beyond those given by Graduate Education and GGE Program-wide policies) for graduate students vary considerably among the GGE faculty. Each graduate student must consult with his or her MP to establish specific expectations. Such expectations include, but are not limited to, frequency of meetings; timing, content, and submission of draft thesis or dissertation components; preparation, submission, and expected number of manuscripts; reading assignments and library usage; and whether or not the MP chooses to provide or pursue funding to support the student. While graduate students must identify an MP at the time of admission, students are not bound to a specific MP. A change in MP requires a mutual agreement among the student, the potential MP, and either the existing MP or Dean of Graduate Education. Students who wish to explore a change in MP should consult the Graduate Program Director (GPD) to discuss options, implications, and potential resolution strategies. Graduate Education and GGE policies, forms, and information are available from the GGE website.
1.3 Keys
Outside door keys, laboratory keys, and office keys for the MI building are available, with approval from the Department Head, Laurie Anderson. The Department secretary prepares the request form. For access to the PRL and offices and labs within the PRL, submit a request to Sally Shelton. Keys are dispensed by Facilities Services and must be returned prior to graduation.

1.4 Offices
Teaching and research assistants are assigned offices according to the following priority basis:
1. GRA, GTA, and students having a Fellowship.
2. Students working with proprietary data or who require a physical South Dakota School of Mines network connection.
3. Unsupported PhD students.
4. Unsupported MS students.

1.5 Mail
Graduate students will be assigned a mail slot in room MI 311.

1.6 Photocopying
Student use of the department copier code is limited to GTA responsibilities. The code is available from the department secretary. The copier has scanning capabilities, which can deliver scanned documents to your email as a PDF. Scan-to-email instructions are posted above the copy machine. Please abide by applicable copyright laws when scanning and photocopying.

1.7 Student Organizations
Graduate students are expected to participate in student organizations and professional societies. GGE hosts several organizations and clubs spanning an informal book club, an honor society, and several discipline-specific professional organization chapters. Students are expected to explore and participate in professional societies, as appropriate. The MP is expected to provide guidance on the merits of these opportunities.

1.7.1 GGE Graduate Representatives
GGE graduate students will elect one MS and one PhD student to serve as graduate student representatives. The election process will be organized annually by the incumbent representatives or by the GPD if necessary. Both graduate representatives will be invited to attend GGE Graduate Program meetings to ensure that graduate student perspectives are represented, as appropriate. Graduate representatives will organize an annual GGE Graduate Student Town Hall Meeting.

1.7.2 GGE Graduate Brownbag Seminar
Graduate students are expected to participate in the GGE Graduate Brownbag seminar. This seminar is a weekly event that will be organized by the GGE graduate representatives and the GPD.
1.7.3 GGE Graduate Student Town Hall Meeting
Graduate representatives will organize and set the agenda for an annual GGE Graduate Student Town Hall Meeting. All graduate students are expected to attend. The GPD will also attend to provide faculty perspective.

1.7.4 GGE Seminars
GGE hosts weekly seminars that are scheduled for Fridays, 4-5PM. Graduate students are expected to attend. The schedule is posted on the GGE webpage.

2 Graduate Program Policies
It is each student’s responsibility to understand the policies of both the Office of Graduate Education and GGE, which are periodically updated. Details of these policies are available from the Graduate Education section of the South Dakota School of Mines online catalog and GGE policies are given in this document. Questions about graduate policies may be directed to the MP, the department head, the Graduate Education office staff, or the GPD.

2.1 Catalog, Policies, and Resources
All School of Mines, Graduate Education, and Departmental policies and information, including this document, are available online (www.sdsmt.edu/Academics/Departments/Geology-and-Geological-Engineering/Graduate-Education/Graduate-Checklists/). State-wide policies established by the South Dakota Board of Regents (SDBOR) are also available online (www.sdbor.edu). Students may efficiently navigate to the desired information via keyword search options near the top-right corner of these websites.

2.2 Advisor, Committee, and Plan of Study
As part of the admission process into the GGE graduate programs, the graduate will identify a faculty advisor, who agrees to serve as the MP. This advisor will assist in course selection and defining the focus and nature of your program. During the first semester of a graduate student’s program, the student and MP will identify a full advisory committee. The student and this committee will define a Program of Study (POS), which must be endorsed by the committee and the Department Head and submitted to the Office of Graduate Education by the second semester of the student’s graduate program. Emeritus and Adjunct Professors may not serve the role of MP.

2.3 MS Committee Composition
An MS committee includes at least three full-time South Dakota School of Mines faculty members. This committee includes the MP, the Graduate Division Representative (GRD) from outside the department, and one additional faculty member having relevant expertise in the student’s research topic. If an Emeritus or Adjunct Professor serves on an MS committee, the committees shall include one additional full-time GGE faculty member. The student and MP may include additional committee members, as appropriate, but the majority must be from the South Dakota School of Mines.

2.4 PhD Committee Composition
A PhD committee includes at least five full-time South Dakota School of Mines faculty members. One must be the MP and one must be the GRD from outside the department. If an Emeritus or Adjunct Professor serves on a PhD committee, the committees shall include one
additional full-time GGE faculty member. The student and MP may include additional committee members, as appropriate, but the majority must be from the South Dakota School of Mines.

2.5 Research Credits

Graduate students registered for thesis or dissertation research credits are required to perform the research activities outlined by the MP and must complete one of the following during each semester the student is enrolled in research credits:

- Present research at a professional conference.
- Present research at a GGE Graduate Student Brownbag Seminar
- Complete an MS oral exam or PhD Qualifying and Comprehensive exam
- Submit a proposal to an external funding agency
- Submit a manuscript or publish in a scholarly journal.
- Defend a thesis or dissertation.

2.6 Quality of Theses and Dissertations

Student theses and dissertations are expected to be of high quality and suitable for publication in peer-reviewed journals. The specific number of publications expected from a given thesis or dissertation will depend on the specific research or journal selections and MP expectations.

2.7 Defense Venue

All graduate defense activities will be held on the South Dakota School of Mines campus. The student will schedule the defense in a specific room that has Audio/Visual equipment, as necessary, and either a chalkboard or white board.

2.8 Conflict Resolution and Assistance

Students are encouraged to resolve conflicts in consultation with the MP, as appropriate. However, students may freely consult the GPD or Department Head. While some conflicts may be readily resolved at the department level, a variety of campus resources are available to assist students.

2.9 GTA Awards and Responsibilities

It is department policy to fund as many Graduate Teaching Assistantships (GTAs) as possible for a student’s initial year. During the first year, each student will consult with his or her MP to devise a strategy for obtaining Graduate Research Assistantship (GRA) support for the second and subsequent years.

Most GTAs will lead a laboratory section for a course. This will require working with the faculty member who is the instructor of record for the course to ensure proper dissemination of content and consistent evaluation methods. General guidelines and expectations for GTAs include, but are not limited to:

1. A half-time GTA corresponds to 10 hours of work per week, full-time GTA is equal to 20 hours per week. As part of the load, the faculty in charge of the course may ask you to assist with logistics in the lecture class.
2. GTAs must maintain three hours of regularly-scheduled office hours each week. This schedule must be posted outside the respective GTA’s office and supplied to the department secretary each semester.
3. GTAs are expected to embody professionalism during the execution of GTA duties.
4. Labs may include field trips. GTAs may be required to execute the logistical arrangements, as well as serve as drivers during a field trip. Logistical arrangements should be made as soon as possible and may include, but are not limited to:
   a. Arrange for vehicles through the department secretary as early as possible. If the trip is cancelled, notify the secretary as soon as possible.
   b. Arrange for drivers (other GTA’s) if necessary.
   c. Provide the department secretary a list of the students who will attend the field trip. Students are not allowed to drive personal vehicles for class field trips.
5. Grade coursework promptly. Grading should be constructive and consistent within a section, as well as among lab sections. GTAs must abide by FERPA regulations regarding the protection of student privacy. A summary of FERPA guidelines and resources is posted on the GGE website.
6. Keep the laboratories and classrooms clean and orderly. Do not revise storage strategies for laboratory materials, unless directed by the faculty.

2.10 GRA and Fellowship Awards

During the first year, each student will consult with his or her MP to devise a strategy for obtaining Graduate Research Assistantship (GRA) or fellowship support for the second and subsequent years of the student’s graduate program. It is the responsibility of both the MP and the graduate student to pursue this support. Support includes: stipend, tuition remission, fees, travel for professional conferences and workshops, publication fees, and any other research costs. Students who successfully secure external grants, fellowships, scholarships, or other funding for support costs will not be exempt from department funding, as appropriate. This policy is an effort to reward self-motivated students, rather than deter enterprising students from seeking external support. GRAs must log ACA hours on a monthly basis. Consult the MP for details.
3 GGE Graduate Program Expectations, Outcomes, and Assessment Plan

The purpose of this assessment is to collect data to be used by the faculty to assess both the quality of the graduate programs, as well as a student’s achievement of the outcomes. GGE Graduate Program-wide expectations are designed to target the following program outcomes:

<table>
<thead>
<tr>
<th>GGE Graduate Program Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>D</td>
</tr>
</tbody>
</table>

GGE administers two rubrics that specify expectations that demonstrate achievement of the program outcomes from both the faculty and graduate student perspectives. From the faculty perspective, the successful GGE graduate student is expected to achieve items I-V listed in the following rubric:

Rubric 1 - GGE Graduate Student Outcomes: Faculty Perspective

The following rubric will be applied at (1) The proposal defense and (2) The time of degree confirmation for all graduate students. The ultimate goal is for all students to achieve a score of 4 (Achieved outcome) in all categories at a degree confirmation assessment.

I. Professional Conference (Outcomes A, B, D)

<table>
<thead>
<tr>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student delivered an invited oral presentation at a national or international conference</td>
<td>Student delivered an oral presentation at a national or international conference</td>
<td>Student presented a poster as a national or international conference</td>
<td>Student presented at a state or regional conference</td>
<td>Student did not present results at a professional venue.</td>
</tr>
<tr>
<td><strong>MS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student delivered an oral presentation at a national or international conference</td>
<td>Student presented a poster at a national or international conference</td>
<td>Student presented at a state or regional conference</td>
<td>Student presented at a department or university conference</td>
<td>Student did not present results at a professional venue.</td>
</tr>
</tbody>
</table>

II. Publication (Outcomes A, B, D)

<table>
<thead>
<tr>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PhD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student is first author on an article published or accepted for publication in a high-impact journal (IF&gt;1)</td>
<td>Student is co-author on an article published or accepted for publication in a high-impact journal (IF&gt;1)</td>
<td>Student is an author or co-author on a manuscript submitted to a high-impact journal (IF&gt;1)</td>
<td>Student is an author or co-author on gray literature article</td>
<td>Student did not author/co-author a publication</td>
</tr>
<tr>
<td><strong>MS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student is author or co-author on an article published or accepted for publication in a high-impact journal (IF&gt;1)</td>
<td>Student is an author or co-author on an article published in the gray literature</td>
<td>Student is an author or co-author on a non-reviewed report (published/ submitted)</td>
<td>Student did not author/co-author a submitted manuscript</td>
<td></td>
</tr>
</tbody>
</table>

III. Seek External (outside of South Dakota School of Mines) Funding/Support (Outcomes A, B, D)

<table>
<thead>
<tr>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PhD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student was awarded a fellowship with full support (at least stipend and full tuition for at least one full calendar year) from an external agency</td>
<td>Student submitted a proposal for a fellowship with full support (at least stipend and full tuition for at least one full calendar year) from an external agency</td>
<td>Student was awarded a scholarship application to an external agency.</td>
<td>Student submitted a scholarship application to an external agency.</td>
<td>Student did not submit any scholarship or fellowship applications to an external agency.</td>
</tr>
<tr>
<td><strong>MS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student was awarded a fellowship with full support (at least stipend and full tuition for at least one full calendar year) from an external agency</td>
<td>Student submitted a proposal for a fellowship with full support (at least stipend and full tuition for at least one full calendar year) from an external agency</td>
<td>Student was awarded a scholarship application to an external agency.</td>
<td>Student submitted a scholarship application to an external agency.</td>
<td>Student did not submit any scholarship or fellowship applications to an external agency.</td>
</tr>
</tbody>
</table>

IV. Participation in professional organizations (Outcomes B, C, D)

<table>
<thead>
<tr>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PhD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student is a member of a national or international professional society</td>
<td>Student is a member of a regional or state professional society</td>
<td>Student is an officer for at least one GGE or University club</td>
<td>Student is a member of at least one GGE or University club</td>
<td>Student is not a member of any professional society or club</td>
</tr>
<tr>
<td><strong>MS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student is a member of a national or international professional society</td>
<td>Student is a member of a regional or state professional society</td>
<td>Student is an officer for at least one GGE or University club</td>
<td>Student is a member of at least one GGE or University club</td>
<td>Student is not a member of any professional society or club</td>
</tr>
</tbody>
</table>

V. Service (Outcomes A, B, C, D)

<table>
<thead>
<tr>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PhD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student led national or international level professional service activities</td>
<td>Student participated in national or international level professional service activities</td>
<td>Student led GGE or external professional service activities</td>
<td>Student participated in GGE or external professional service activities</td>
<td>Student did not participate in any service activities</td>
</tr>
<tr>
<td><strong>MS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student led national or international level professional service activities</td>
<td>Student participated in national or international level professional service activities</td>
<td>Student led GGE or external professional service activities</td>
<td>Student participated in GGE or external professional service activities</td>
<td>Student did not participate in any service activities</td>
</tr>
</tbody>
</table>
From the graduate student perspective, the successful GGE program is expected to achieve items I-III listed in the following rubric:

Rubric 2 - GGE Graduate Student Outcomes: Graduate Student Perspective

The following rubric will be applied following degree confirmation for all graduate students. The ultimate goal is for all program items to achieve a score of 4 (Achieved outcome) in all categories.

<table>
<thead>
<tr>
<th>I. Program web-based advertisement (Outcomes A, C, D).</th>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty expertise is accurately described.</td>
<td>Faculty expertise descriptions are mostly accurate.</td>
<td>Faculty expertise descriptions are moderately accurate.</td>
<td>Faculty expertise descriptions are mostly inaccurate.</td>
<td>Faculty expertise descriptions are entirely inaccurate.</td>
<td></td>
</tr>
<tr>
<td>Research facilities are accurately described.</td>
<td>Descriptions of available research facilities are mostly accurate.</td>
<td>Descriptions of available research facilities are moderately accurate.</td>
<td>Descriptions of available research facilities are mostly inaccurate.</td>
<td>Descriptions of available research facilities are entirely inaccurate.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. Major Professor and Committees (Outcomes A, B, C, D)</th>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP is an expert in my field of research</td>
<td>MP has much expertise in my field of research</td>
<td>MP has some expertise in my field of research</td>
<td>MP has little expertise in my field of research</td>
<td>MP has no expertise in my field of research</td>
<td></td>
</tr>
<tr>
<td>MP is readily available and usually provides timely guidance.</td>
<td>MP is mostly available and sometimes provides timely guidance.</td>
<td>MP is sometimes available and sometimes provides timely guidance.</td>
<td>MP is mostly unavailable and generally does not provide timely guidance.</td>
<td>MP is systematically unavailable and does not provide timely guidance.</td>
<td></td>
</tr>
<tr>
<td>The entire committee (other than MP) provided essential guidance.</td>
<td>Most of the committee (other than MP) provided useful guidance</td>
<td>Some of the committee (other than MP) provided useful guidance</td>
<td>The contribution of the committee (other than the MP) provided minimal guidance</td>
<td>The committee (other than the MP) contributed no useful guidance</td>
<td></td>
</tr>
<tr>
<td>MP placed a high priority on facilitating integrations with external specialists in the MP’s field of expertise.</td>
<td>MP placed a moderate priority on facilitating integrations with external specialists in the MP’s field of expertise.</td>
<td>MP placed a low priority on facilitating integrations with external specialists in the MP’s field of expertise.</td>
<td>MP made little attempt to facilitate integrations with external specialists in the MP’s field of expertise.</td>
<td>MP did not attempt to facilitate integrations with external specialists in the MP’s field of expertise.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>III. Major Professor and Committees (Outcomes A, B, D)</th>
<th>4 (Achieved outcome)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0 (did not achieve outcome)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP or student provided full external support*, other than one year of TA support.</td>
<td>Both MP and student submitted proposals for full external support*, other than one year of TA support.</td>
<td>Either MP or student submitted proposals for full external support*, other than one year of TA support.</td>
<td>Either MP or student submitted proposals for partial external support*, other than one year of TA support.</td>
<td>Neither MP nor student attempted to acquire full support*.</td>
<td></td>
</tr>
</tbody>
</table>

*Full support is defined in Section 2.10.
4 Graduate Course Planning
5 PhD Flowchart

Note: Red=Grad Ed requirements, Blue=GGE requirements

- Begin Program
- POS
- Develop Funding Support Strategy w/Advisor
- Request for Qualifying Exam
- Dissertation Proposal
  - 1. Solicit Faculty for Qualifying Exam Questions
  - 2. Notify GGE Secretary of Qual Exam and Schedule with Grad Ed.
  - Qualifying Exam (written)
  - <1 wk. Submit Results to Grad Ed
  - >2 wks. Last Week of Classes
- Comprehensive Exam (oral)
  - <1 wk. Submit Results to Grad Ed
- Final Dissertation Draft
  - >2 wks. Dissertation Defense Scheduling to Grad Ed
  - >5 days. Dissertation Defense
  - >4 wks. Last Week of Classes
  - Final Dissertation
  - Graduation
6 GGE Graduate Student Funding Travel Application

Graduate students may apply to the department to receive funding to offset expenses incurred while attending professional conferences and workshops. However, all such funding requests must be backed by equivalent (1:1 match) external pending or secured resources from the MP or graduate student. Recently declined proposals from the MP or student may satisfy the match requirement, if approved by the GGE scholarship committee. This policy is intended to (1) leverage GGE resources and (2) ultimately eliminate the unethical practice of burdening graduate students with out-of-pocket expenses for professional travel. The amount of funding received will be based on total cost of the trip and merit. Applications must be received no later than the end of the second full week of classes of both the Spring and Fall semesters. Applications must include the following information and supporting documentation:

- Graduate Student Name
- MP
- Name of conference or workshop
- Reason for attending the conference or workshop
- Itemized cost and supporting documentation of the proposed trip
- Requested support for the travel
- Support secured for the travel, provided by:
  - Graduate student
  - MP
- Pending support for the travel, provided by:
  - Graduate student
  - MP
- Brief letter of endorsement from the MP that includes an explanation and affirmation of the 1:1 match.

The 1:1 match requires that the sum of the secured and pending support must be equivalent to the request for GGE support. Applications that fail to establish the 1:1 match requirement will be excluded from consideration. Students selected for funding will be reimbursed following the trip and the appropriate state travel forms and documentation in accord with GGE, SDSMT, and SDBOR policies.