

# Doctor of Philosophy in Geology

## Geology Graduate Programs

KU Geology is comprised of students, faculty, staff, and alumni who are inspired by a collaborative and multidisciplinary mission to undertake scientific discovery that benefits society.

Our program is large enough to be led by world-renowned faculty with expertise in areas that span the geosciences, from energy to the environment, volcanology to the cryosphere, microbes to ancient rock, and more. At the same time, we are small enough to offer personalized, student-centered learning experiences. We are located in the world class Earth, Energy, and Environment Center (<https://eeec.ku.edu/>), which houses state-of-the-science laboratories, collaborative spaces, and classrooms.

Our program provides students with a comprehensive curriculum in geoscience with unique research opportunities, including acclaimed field experiences. KU Geology runs one of the oldest field camps in the nation (established in 1922 in Cañon City, CO) and our program emphasizes field instruction at all levels and in locations near and far.

Our students are generously supported by scholarships and resources (<http://geo.ku.edu/facilities/>) that allow them to take advantage of all that KU Geology has to offer. Geoscience is a prolific field, with high demand for our graduates in careers that significantly impact society. We maintain a long tradition of connecting our graduates to career and interview opportunities, as well as to our GHawk Community of successful geoscience alumni and professionals around the world.

We invite you to explore further information about KU Geology on our website (<http://geo.ku.edu/>) and we welcome all inquiries related to our program.

## Admission to Graduate Studies

An applicant seeking to pursue graduate study in the College may be admitted as either a degree-seeking or non-degree seeking student. Policies and procedures of Graduate Studies govern the process of Graduate admission. These may be found in the Graduate Studies (<http://catalog.ku.edu/graduate-studies/>) section of the online catalog.

Please consult the Departments & Programs (<http://catalog.ku.edu/liberal-arts-sciences/>) section of the online catalog for information regarding program-specific admissions criteria and requirements. Special admissions requirements pertain to Interdisciplinary Studies degrees, which may be found in the Graduate Studies section of the online catalog.

## Graduate Admission

Admission is based on academic records including GPA and general preparedness in geology and supporting sciences, letters of recommendation, and the applicant's stated academic and professional interests and goals. An attempt is made to balance the interests of students with the availability of faculty members to supervise them and laboratory space in which they may work. Students with exceptional records may be invited to study for the Ph.D. without first earning the M.S. degree.

\*\*Graduate Record Examination (GRE) scores are not required for the application. Applicants may choose to submit GRE scores if they feel it will help inform the department of their academic abilities. However, choosing not to submit scores will not affect your chances of admission.\*\*

**The Department of Geology will review your application only after the application process is complete. \*Please note that it is essential for all applicants to contact and communicate with a potential faculty supervisor in the Geology Department. Their evaluation and acceptance of graduate students is an important part of the admission evaluation.**

You will need the following for your application:

1. **Official transcripts and proof of graduation:** U.S. universities generally indicate on transcripts if a degree has been conferred. However, if such a statement does not appear on a transcript, separate proof in the form of a degree certificate or diploma, issued directly by the institution, is required. Photocopies are not accepted. Transcripts from all post secondary institutions that you have attended are necessary for your application. Failure to provide them could result in delay processing your application. If a student is admitted before completing his or her undergraduate degree, the documentation proving he or she did graduate must be supplied to the Dept. of Geology *before the end* of the student's first semester at KU.
2. **3 Letters of Recommendation:** You will be asked for the names and email addresses of three people who can write a recommendation letter describing your qualifications for graduate school in geology. Once you submit the application, an email will be sent requesting a letter from each person that you name. Once the applicant submits the online application form (see point 1), referees will receive an email notification with detailed instructions on how to submit a letter of reference.
3. **Resume/CV :** Please include awards, extra curricular activities (student organizations, community outreach), presentations, and publications.
4. **Personal Statement:** This is included in the on-line application form and should be about 2 pages, typed. The Graduate Studies Committee places considerable importance on the thoughtfulness of your remarks – in particular, we are interested in learning about (1) your specific interests within geology and why they are important and interesting to you, (2) what you envision as your educational and career objectives and how a degree from KU Geology helps to meet those objectives, and (3) which of our faculty members you think would be an appropriate graduate advisor and mentor.

## ADDITIONAL REQUIREMENTS

Non-native speakers of English must meet English proficiency requirements (<https://gradapply.ku.edu/english-requirements/>).

**The Department of Geology will review your application only after the application process is complete.**

Submit your graduate application online (<https://gradapply.ku.edu/>). (<https://gradapply.ku.edu/apply/>)

Inquiries may be sent to the department Graduate (<https://geo.ku.edu/staff/>) **Program Coordinator**.

## Ph.D. Degree Requirements

Doctoral students can specialize in any area of faculty expertise, including sedimentology, paleontology, tectonics, geobiology,

glaciology, geophysics and hydrogeology. Prospective Ph.D. candidates are subject to the same initial requirements as master's students. The master's degree is not a prerequisite for doctoral aspirancy. A student with a good background and good performance during the first two semesters may be invited to proceed directly toward the doctorate.

The student's advisory committee and the student construct a curriculum that offers the best preparation for the chosen field of interest and satisfies the research skills requirement. Each student is expected to enroll in courses in supporting fields to develop a multidisciplinary approach to geology. The student must maintain at least a 3.0 grade-point average in geology and supporting science courses.

## Research Skills & Responsible Scholarship Requirements

The university requires that every doctoral student have training in responsible scholarship and research skills pertinent to the field of research and appropriate to the doctoral level. This requirement must be met before taking the comprehensive oral exam. Doctoral students in geology meet this requirement by the following:

- Completion of GEOL 791: Ethics in the Geosciences with a grade of "B" or higher.
- With the approval of the advisory committee, the student may meet the research skills requirement by taking either a curriculum of at least three graduate-level courses outside the department that are relevant to the specialty, or by completing a combination of languages, research skills, and courses.

Either coursework plan must be approved by the Director of Graduate Studies, and a list of these courses must be in the student's file.

Please contact your advisor or the Director of Graduate Studies for further information about research skills and responsible scholarship, and see the current policy on Doctoral Research Skills and Responsible Scholarship in the Graduate Studies section of the online catalog and in the KU Policy Library.

## Admission to Candidacy

To be admitted to Ph.D. candidacy, a student must pass an oral comprehensive examination on the specialty in geology in which the student is doing doctoral research and on other relevant areas of geology and supporting sciences. The student must prepare and have approved a research proposal based on the doctoral research project before the oral comprehensive examination. The examination is based on the material presented in the proposal and its application to geology in general. The examination is conducted by a 5-member faculty committee; one member of the committee must be from a KU department other than geology and is appointed by Graduate Studies on recommendation of the department. The same committee is also responsible for conducting a final oral examination based on the doctoral dissertation. Three members of the committee supervise research and preparation for the dissertation.

## Shared Doctoral Program with Kansas State University

The Department has a shared education program whereby doctoral students may study under the direction of a faculty member of the Department of Geology at Kansas State University, with a KU faculty member as co-chair of the dissertation committee. After one year of course work in Lawrence to fulfill the residency requirement, students may enroll at Kansas State University. Degrees are awarded by

KU. For specific information on departmental practices in shaping individual curricula, in controlling general examinations, and in evaluating dissertation proposals, contact the department Director of Graduate Studies.