CIVIL ENGINEERING, PHD

for the degree of Doctor of Philosophy in Civil Engineering

head of department: Ana Barros (https://cee.illinois.edu/directory/staff/office-department-head/)
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overview of admissions & requirements: https://cee.illinois.edu/admissions/graduate/
overview of grad college admissions & requirements: https://grad.illinois.edu/admissions/apply (https://grad.illinois.edu/admissions/apply/)
department website: https://cee.illinois.edu/
program website: https://cee.illinois.edu/academics/graduate-programs/phd-degree-and-curriculum (https://cee.illinois.edu/academics/graduate-programs/phd-degree-and-curriculum/)
department faculty: https://cee.illinois.edu/directory/faculty (https://cee.illinois.edu/directory/faculty/)

college website: https://grainger.illinois.edu/

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The Department of Civil and Environmental Engineering, consistently ranked as having one of the best graduate programs in the country, offers graduate work leading to master's and doctoral degrees. These are in a variety of specialized areas through departmental programs which are described on this page.

Opportunity exists for specializing in computational science and engineering via the Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/) optional graduate concentration.

Admission Requirements
The Department of Civil & Environmental Engineering accepts applications for admission to the graduate program for both fall and spring semesters.

Admission to the Graduate College with full status in civil engineering is granted to graduates of accredited institutions whose requirements for the master's degree are substantially equivalent to those of the University of Illinois, provided the applicant's preparation is appropriate for advanced study in his or her chosen major field and his or her cumulative grade point average is at least 3.00 (A = 4.00). The Graduate Record Examination (GRE) (http://www.ets.org/portal/site/ets/menuitem.fab2360b1645a1de9b3a0779f175109/?vgnextoid=b195e3b5f64f4010VgnVCM10000022f95190RCRD) is required. For additional information, see the departmental Web site (https://cee.illinois.edu/admissions/graduate/).

All applicants whose native language is not English are required to submit TOEFL (http://www.toefl.org/) or International English Language Testing System (IELTS) (http://www.ielts.org/) scores as evidence of English proficiency. Minimum admission requirements (https://grad.illinois.edu/admissions/instructions/04c/) are set by the Graduate College.

Financial Aid
Financial aid is available in the form of fellowships and research and teaching assistantships. Starting in Fall 2020, Grainger Engineering PhD students in their first five years of enrollment who meet the minimum eligibility requirements (https://grainger.illinois.edu/academics/graduate/phd-funding-guarantee/) are guaranteed a funded appointment for fall and spring that includes a full tuition waiver, a partial fee waiver, and a stipend.

All applicants, regardless of US citizenship, whose native language is not English and who wish to be considered for teaching assistantships must demonstrate spoken English language proficiency (http://www.grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 50 on the speaking subsection of the TOEFL iBT or 8 on the speaking subsection of the IELTS. For students who are unable to take the iBT or IELTS, a minimum score of 4CP is required on the EPI test (http://cte.illinois.edu/testing/oral_eng/epi_overview.html), offered on campus. All new teaching assistants are required to participate in the Graduate Academy for College Teaching (https://citl.illinois.edu/citl-101/teaching-learning/grad-academy-for-college-teaching/) conducted prior to the start of the semester.

Department Research
Areas of study and research pursued by our world-renowned faculty are focused in the following ten specializations:

- construction management
- environmental engineering and science
- environmental hydrology and hydraulic engineering
- geotechnical engineering
- materials

Information listed in this catalog is current as of 07/2022
• structural engineering  • transportation engineering  • sustainable and resilient infrastructure systems  • energy-water-environment sustainability  • societal risk and hazard mitigation

More information about these specialized areas may be found at the department's research Web site (https://cee.illinois.edu/areas/).

Through the research centers based in the department, CEE students participate in a wide range of groundbreaking research projects with immediate relevance to real-world engineering applications. For more information, see the department's research centers Web site (https://cee.illinois.edu/research/research-centers/).

CEE at Illinois is one of the nation’s best-equipped programs, with a broad range of facilities for civil and environmental engineering education and research. For more information, see the department’s research facilities Web site (https://cee.illinois.edu/research/research-facilities/).

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Other Graduate Programs in the Department of Civil & Environmental Engineering

- degrees:
  - Civil Engineering, MS (http://catalog.illinois.edu/graduate/engineering/civil-engineering-ms/)
    - optional concentrations for the MS:
      - Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
      - Data Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/data-science-engineering/)
  - Environmental Engineering in Civil Engineering, MS (http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-ms/)
    - optional concentrations:
      - Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
  - Environmental Engineering in Civil Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-phd/)
    - optional concentrations:
      - Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
    - concentrations:
      - Railway Engineering (http://catalog.illinois.edu/graduate/engineering/engineering-meng/railway/)
      - available for:
        - Engineering, MENG (http://catalog.illinois.edu/graduate/engineering/engineering-meng/)

- joint programs:
  - Civil Engineering, MS & Architecture, MARCH (http://catalog.illinois.edu/graduate/engineering_faa/joint-degree/architecture-march-civil-engineering-ms/), (Construction Management or Structures)
  - Civil Engineering, MS & Urban Planning, MS (http://catalog.illinois.edu/graduate/faa/joint-degree/urban-planning-mup/)

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