CIVIL AND ENVIRONMENTAL ENGINEERING (ENCE)

CIVIL AND ENVIRONMENTAL ENGINEERING (ENCE)

Graduate Degree Program
College: Engineering

Abstract
The Department of Civil and Environmental Engineering offers graduate courses leading to the Master of Science and Doctor of Philosophy degrees. All programs are planned on an individual basis by the student and an adviser taking into consideration the student’s background and special interests. Areas of concentration at both the master’s and doctoral levels include: transportation engineering, environmental engineering, water resources engineering, structural engineering, geotechnical engineering, civil systems, and project management.

Financial Assistance
Research assistantships may be available from individual faculty members, depending on available resources. Only a limited number of teaching assistantships are available. Part-time work as grading assistants may be available as well.

Contact
Department of Civil and Environmental Engineering
1173 Glenn L. Martin Hall
4298 Campus Drive
University of Maryland
College Park, MD 20742
Telephone: 301.405.4195
Fax: 301.405.2585
Email: ence-admissions@umd.edu
Website: http://www.civil.umd.edu

Courses: ENCE ENCE

Admissions
Applicants for admission should hold a B.S. degree in civil engineering. However, applicants with undergraduate degrees in other disciplines may be accepted with the stipulation that deficiencies in prerequisite undergraduate coursework be corrected before enrolling in graduate courses. In addition to the requirements set forth by the Graduate School, applicants must have a minimum GPA of 3.0 to apply to the Master's Program, and a minimum GPA of 3.5 to apply to the Doctoral Program. Applicants with lower GPA's may be considered and accepted in a provisional basis if other indicators of ability are exceptional (letters of recommendation, GRE scores, prior experience ...). Applicants are also required to submit results from the Graduate Record Examination. There are no entrance examinations required for the program.

General Requirements
- Statement of Purpose
- Transcript(s)
- TOEFL/IELTS/PTE (international graduate students (https://gradschool.umd.edu/admissions/english-language-proficiency-requirements))

Program-Specific Requirements
- Letters of Recommendation (3)
- Graduate Record Examination (GRE)
- CV/Resume

For more admissions information or to apply to the program, please visit our Graduate School website: www.gradschool.umd.edu/admissions

Application Deadlines

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<th>Type of Applicant</th>
<th>Fall Deadline</th>
<th>Spring Deadline</th>
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<td>Domestic Applicants</td>
<td>Priority Consideration: 17 Jan / Final: 1 May</td>
<td>Priority Consideration: 1 Sept / Final: 2 Oct</td>
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<td>Priority Consideration: 1 Sept / Final: 18 Sept</td>
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Other Deadlines: Please visit the program website at http://www.civil.umd.edu

Requirements
- Civil and Environmental Engineering, Doctor of Philosophy (Ph.D.)
  (https://academiccatalog.umd.edu/graduate/programs/civil-environmental-engineering-ence/civil-environmental-engineering-phd)
- Civil and Environmental Engineering, Master of Science (M.S.)
  (https://academiccatalog.umd.edu/graduate/programs/civil-environmental-engineering-ence/civil-environmental-engineering-ms)

Facilities and Special Resources
Departmental research facilities include laboratories in the following areas: transportation, systems analysis, environmental engineering, hydraulics, remote sensing, structures, and soil mechanics. Graduate students have convenient access to a spectrum of computer facilities, including networked personal computers and workstations, specialized computer-aided design, graphics, and visualization laboratories, campus mainframe computers, and remote supercomputer facilities.

The Washington and Baltimore metropolitan areas are easily accessible for data, field studies, library access, contacts with national organizations, and attendance at national meetings. The location of the University of Maryland offers a unique opportunity to obtain an advanced degree in civil engineering.

Faculty

Aggour Mohamed S. Full Member B.S., Cairo University, 1964; M.S., 1966; Ph.D., University of Washington, 1972.

Professor, Civil and Environmental Engineering
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution/Date</th>
<th>Position</th>
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<tbody>
<tr>
<td>Albrecht Pedro</td>
<td>Full Member</td>
<td>Ph.D., Lehigh University, 1972.</td>
<td>Professor Emeritus, Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Amde Amde M.</td>
<td>Full Member</td>
<td>B.E.S., Johns Hopkins University, 1970; M.S., University of California-Berkeley, 1971; Ph.D., State University of New York-Buffalo, 1976.</td>
<td>Professor, Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Austin Mark A.</td>
<td>Full Member</td>
<td>B.E., University of Canterbury, 1980; M.S., University of California-Berkeley, 1982; Ph.D., 1985.</td>
<td>Director, Systems Engineering Associate Professor; Applied Mathematics &amp; Statistics, and Scientific Computation Associate Professor; Systems Engineering Associate Professor, Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Aydilek Ahmet H.</td>
<td>Full Member</td>
<td>B.S., Istanbul Technical University, 1993; M.S., University of Wisconsin-Madison, 1996; Ph.D., University of Wisconsin-Madison, 2000.</td>
<td>Professor, Civil and Environmental Engineering</td>
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<tr>
<td>Ayyub Bilal M.</td>
<td>Full Member</td>
<td>B.S., Kuwait University, 1980; M.S., Georgia Institute of Technology, 1981; Ph.D., 1983.</td>
<td>Professor; Applied Mathematics &amp; Statistics, and Scientific Computation Professor; Reliability Engineering Professor, Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Baecher Gregory B.</td>
<td>Full Member</td>
<td>B.S., University of California-Berkeley, 1968; M.S., Massachusetts Institute of Technology, 1970; Ph.D., 1972.</td>
<td>Professor Emeritus, Civil and Environmental Engineering</td>
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<tr>
<td>Birkner Francis B.</td>
<td>Full Member</td>
<td>B.S., Newark College of Engineering, 1961; M.S.E., University of Florida, 1962; Ph.D., 1965.</td>
<td>Professor Emeritus, Civil and Environmental Engineering</td>
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<tr>
<td>Brubaker Kaye L.</td>
<td>Full Member</td>
<td>B.A., Eastern Mennonite College, 1979; B.S., University of Maryland-College Park, 1989; M.S., Massachusetts Institute of Technology, 1991; Ph.D., 1995.</td>
<td>Associate Professor, Civil and Environmental Engineering</td>
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<tr>
<td>Cable John Hart</td>
<td>Adjunct Member</td>
<td>B.Arch., Clemson University, 1967; M.Arch., Catholic University of America, 1970.</td>
<td>Senior Research Engineer, Civil and Environmental Engineering</td>
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<tr>
<td>Carter Everett C.</td>
<td>Full Member</td>
<td>B.S., Virginia Polytechnic Institute, 1958; M.Eng., University of California-Berkeley, 1959; Ph.D., Northwestern University, 1969.</td>
<td>Professor Emeritus, Civil and Environmental Engineering</td>
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<td>Name</td>
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<td>Chang Gang-Len</td>
<td>Full Member</td>
<td>B.E., National Cheng Kung University-Taiwan, 1975; M.S., National Chiao Tung University-Hsinchu, 1979; Ph.D., University of Texas-Austin, 1985.</td>
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<tr>
<td>Cui Qingbin</td>
<td>Full Member</td>
<td>BE in Construction Engineering, Tianjin University, 1993; MS in Technology Economics, Tianjin University, 2000; PhD in Civil Engineering, Purdue University, 2005</td>
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<tr>
<td>Chang Peter C.</td>
<td>Full Member</td>
<td>B.S., Texas A&amp;M University-College Station, 1975; M.S., University of Illinois-Urbana/Champaign, 1979; Ph.D., 1982.</td>
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<td>Davis Allen P.</td>
<td>Full Member</td>
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<td>Donaldson Bruce K.</td>
<td>Full Member</td>
<td>B.S., University of Delaware, 1984; M.S., 1986; Ph.D., 1989.</td>
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<td>Clifton Kelly J.</td>
<td>Full Member</td>
<td>B.S., West Virginia University, 1990; M.S., University of Arizona, 1995; Ph.D., University of Texas at Austin, 2001.</td>
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<td>Forman Barton</td>
<td>Full Member</td>
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<td>Colville James</td>
<td>Full Member</td>
<td>B.S., Purdue University, 1959; M.S., 1960; Ph.D., University of Texas-Austin, 1970.</td>
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<td>Fu Chung C.</td>
<td>Full Member</td>
<td>B.S., National Taiwan University, 1975; Ph.D., 1982.</td>
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<td>Galloway Gerald</td>
<td>Adjunct Member</td>
<td>B.S., U.S. Military Academy; M.S., Princeton University; M.P.A., Pennsylvania State University; M.A., U.S. Army Command and General Staff College; Ph.D., University of North Carolina.</td>
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<tr>
<td>Haghani Ali</td>
<td>Full Member</td>
<td>Research Professor, Civil and Environmental Engineering</td>
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<td>Hao Oliver J.</td>
<td>Full Member</td>
<td>B.S., Cheng Kung University, 1968; M.S., Colorado State University, 1971; Ph.D., University of California-Berkeley, 1982.</td>
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<td>Gansler Jacques S.</td>
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<td>Golden Bruce L.</td>
<td>Full Member</td>
<td>B.A., University of Pennsylvania, 1972; S.M., Massachusetts Institute of Technology, 1974; Ph.D., 1976.</td>
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<td>Goodings Deborah J.</td>
<td>Full Member</td>
<td>B.S., University of Toronto, 1975; Ph.D., Cambridge University, 1979.</td>
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<td>Goodings Dimitrios</td>
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<td>Laurea, University Degli Studi, 1987; M.S., University of Michigan-Ann Arbor, 1988; Ph.D., University of Texas-Austin, 1992.</td>
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<td>Kjellerup Birthe</td>
<td>Full Member</td>
<td>M.Sc. Assistant Environmental Professor, Engineering Aalborg University, 1997; Ph.D., Environmental Engineering Aalborg University, 2004.</td>
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<td>Haghani Ali</td>
<td>Full Member</td>
<td>B.S., Shiraz University, 1976; M.S., Northwestern University, 1982; Ph.D., 1986. GCEN Academic Advisor for Civil and Environmental Engineering.</td>
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<td>Lovell</td>
<td>David J.</td>
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<td>B.A.,Portland State University, 1990; M.S., University of California-Berkeley, 1993 Ph.D., 1997.</td>
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<td>B.S., Civil Engineering, Tianjin University, 1998; M.S., Environmental Engineering, Tianjin University, 2001; Ph.D., Environmental Engineering, University of Illinois at Urbana-Champaign, 2006</td>
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<td>Milner</td>
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<td>Witczak</td>
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<td>Wright</td>
<td>Richard</td>
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<td>Adjunct Member</td>
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<td></td>
<td>B.S., Syracuse University, 1953; M.S., Syracuse University, 1955; Ph.D., University of Illinois, 1962.</td>
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<tr>
<td>Zhang Lei</td>
<td>Full Member</td>
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<td>B.S., Tsinghua University, 2000; M.S., University of Minnesota, 2002, 2005; Ph.D., University of Minnesota, 2006.</td>
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<td>Zhang Yunfeng</td>
<td>Full Member</td>
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