DOCTOR OF ENGINEERING IN THE FIELD OF ENGINEERING MANAGEMENT

Designed for the technical manager who needs a broad education to keep an organization operating efficiently and working ahead of its competitors, GW’s engineering management program provides graduate education in the most current management techniques for technological and scientific organizations.

Graduate students can pursue their degrees in one of the following focus areas: crisis, emergency, and risk management; economics, finance, and cost engineering; engineering and technology management; environmental and energy management; and knowledge and information management.

The doctoral program, tailored for each student, is designed to provide the ability to perform substantive research in an area of the student’s choice. Students benefit from working closely with faculty whose applications research has been successfully used by major organizations.

Visit the SEAS online programs website (https://seasonline.gwu.edu/doctoral-degrees/doctor-of-engineering/) for additional information.

ADMISSIONS

The admission requirements below are for the on-campus program. Admission requirements for the online program are available at the online programs website (https://engineering.gwu.edu/admissions/).

Admission deadlines:

- Fall – January 15
- Spring – September 1
- Summer* – March 1

Standardized test scores: The Graduate Record Examination (GRE) is required of all applicants to the main GW campus (Institution code 5246). For application to the online cohort programs, GRE and GMAT scores are not required, but can be submitted to strengthen the application.

The Test of English as a Foreign Language (TOEFL), the academic International English Language Testing System (IELTS), or the PTE Academic is required of all applicants except those who hold a bachelor’s, master’s, or doctoral degree from a college or university in the United States or from an institution located in a country in which English is the official language, provided English was the language of instruction. Minimum scores:

- Academic IELTS: an overall band score of 7.0 with no individual score below 6.5; or
- TOEFL: 600 on paper-based or 100 on Internet-based; or
- PTE Academic: 68.

Recommendations required: Three recommendations are required. If possible, one recommendation should be from your advisor at the institution from which you earned your highest degree.

Prior academic records: Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission.

If academic records are in a language other than English, a copy in the original language and an English language translation must be uploaded. Transcript evaluations should not be uploaded. Applicants with degrees from Indian universities should upload transcripts and/or detailed marksheets.

Statement of purpose: The statement of purpose essay is optional.

Additional requirements:

D.Eng.: Master’s degree with a GPA of at least 3.2 on a 4.0. scale; two or more college-level calculus courses passed with grades of B- or better; five years of relevant professional experience; and suitable bachelor’s and master’s degrees in engineering, applied science, mathematics, computer science, physics or a related field are required.

All applicants must submit a resumé or CV. All on-campus applicants must choose an area of focus that most closely matches their interests and note this on the online application.

International applicants only: Please follow this link - https://graduate.admissions.gwu.edu/international-student-application-requirements - to review the International Applicant Information carefully for details on required documents, earlier deadlines for applicants requiring an I-20 or DS-2019 from GW.

* A limited number of doctoral applicants are accepted for the summer. Please contact the admissions office for details. International applicants who require a visa from GW are eligible to apply for admission in fall and spring only (not summer).
For more information on the admission process, please visit the SEAS Frequently Asked Questions page. (http://graduate.seas.gwu.edu/apply/faq/)

Contact for questions:
engineering@gwu.edu - 202-994-1802 (phone) - 202-994-1651 (fax)
9:00 - 5:00 pm, Monday through Friday

REQUIREMENTS

Credit Requirements
The following requirements must be fulfilled: 45 credits, including 30 credits in required courses and 15 credits in research culminating in a practice-based case study.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EMSE 6115</td>
<td>Uncertainty Analysis for Engineers</td>
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<tr>
<td>EMSE 6992</td>
<td>Special Topics (Quantitative Methods for Engineering Managers)</td>
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<tr>
<td>EMSE 8100</td>
<td>The Praxis Proposal</td>
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A minimum of 6 credits of EMSE analytical methods courses selected in consultation with the advisor.

A minimum of 9 credits of EMSE engineering management courses selected in consultation with the advisor.

Electives

6 credits in courses selected in consultation with the advisor.

Praxis

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<th>Credits</th>
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<tr>
<td>EMSE 8199</td>
<td>Praxis Research (taken for a total of 15 credits)</td>
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Students must complete the praxis proposal examination by preparing and defending their proposal before a committee of at least two full-time members of the SEAS and one outside advisor external to the faculty.