

# DOCTOR OF ENGINEERING IN THE FIELD OF ENGINEERING MANAGEMENT - ONLINE

The doctor of engineering in engineering management degree program is designed for practitioners who wish to apply the knowledge they gain in a technical management environment. Unlike a PhD, wherein research is focused on foundational work that is published, the doctor of engineering requires solving a real-world problem using the latest engineering management concepts and tools. The program is offered in a synchronous, online format with classes held on Saturdays. This format enables professionals who are employed full-time to pursue advanced study in a focused environment alongside like-minded fellow students. The program culminates in a praxis for use by practicing engineers to address a common concern or challenge.

Visit the program website (<https://online.engineering.gwu.edu/online-doctor-engineering-engineering-management/>) for additional information.

## ADMISSIONS

**Deadlines:** Admission is offered on a rolling basis for four cohort starts per year.

**Standardized test scores:** 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 6.0 with no individual score below 5.0; applicants requesting funding consideration must have an overall band score of 7.0 with no individual score below 6.0; or

TOEFL: 550 on paper-based or 80 on Internet-based; applicants requesting funding consideration must have 600 on paper-based; or 100 on Internet-based; or

PTE Academic: 53; applicants requesting funding consideration must have 68.

**Recommendations required:** Three (3) recommendations 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 who have earned a degree from an Indian university are required to submit individual semester marksheets.

**Statement of purpose:** Please write a comprehensive essay of approximately 250 words, indicating your primary and supporting fields of study, your specialized interests, and the general subject area of your planned dissertation or professional project.

Visit the SEAS Online website (<https://online.engineering.gwu.edu/online-doctor-engineering-engineering-management/>) for additional information.

## REQUIREMENTS

The following requirements must be fulfilled: 48 credits, including 24 credits in required courses and 24 credits in research culminating in a practice-based case study.

Code	Title	Credits
<b>Core requirements</b>		
EMSE 6025	Entrepreneurship and Technology	
EMSE 6030	Technological Forecasting and Management	
EMSE 6420	Uncertainty Analysis in Cost Engineering	
EMSE 6767	Applied Data Analytics	
EMSE 6790	Logistics Planning	
SEAS 6800	Special Topics	
EMSE 8099	Survey of Research Formulation for Engineering Management	
EMSE 8100	The Praxis Proposal	
<b>Praxis</b>		
EMSE 8199	Praxis Research (taken for a total of 24 credits)	

### Additional Requirements

1. Students must earn a minimum grade of *B-* in all courses and must achieve a minimum GPA of 3.2 at the completion of their coursework to advance to the research phase.
2. The praxis proposal examination must be completed by preparing and defending a research proposal. Students have a maximum of two attempts to pass the praxis proposal examination.
3. Students must complete the final examination on their praxis by preparing and defending their praxis before a committee of three faculty members. Students have a maximum of two attempts to pass the final defense.