

# Graduate Certificate Programs

The College of Engineering offers numerous graduate engineering certificates for professionals at every career stage. These certificates may be completed as stand-alone credentials or in combination with a graduate degree. They typically consist of 16 to 20 semester hours and allow the learner to quickly gain a credential to advance their skills and knowledge, meet an emerging career market need, or add to their professional preparation. In many cases, graduate coursework completed as part of a certificate program may be applied toward a graduate degree in the College of Engineering. Whether you are a working professional seeking new career opportunities, or a full-time graduate student looking to enhance your credentials, our broad and continuously expanding range of certificates are ready to help move your preparation forward.

## Programs

The College of Engineering offers numerous graduate certificates that may be completed alone or in combination with an MS degree. Please see for GSE Certificates Policies and Procedures (<https://catalog.northeastern.edu/graduate/engineering/academic-policies-procedures/certificates-policies-procedures/>) for detailed information regarding College of Engineering graduate certificates.

### Chemical Engineering

- Process Safety Engineering (<https://catalog.northeastern.edu/graduate/engineering/chemical/process-safety-engineering-graduate-certificate/>)

### Civil and Environmental Engineering

- Climate and Engineering (<https://catalog.northeastern.edu/graduate/engineering/civil-environmental/climate-engineering-graduate-certificate/>)
- Sustainability Engineering (<https://catalog.northeastern.edu/graduate/engineering/civil-environmental/sustainability-engineering-graduate-certificate/>)

### Mechanical and Industrial Engineering

- AI Applications (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/ai-applications-graduate-certificate/>)
- Data Analytics Engineering (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/data-analytics-engineering-graduate-certificate/>)
- Energy Systems (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/energy-systems-graduate-certificate/>)
- Energy Systems Management (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/energy-systems-management-graduate-certificate/>)
- Renewable Energy (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/renewable-energy-graduate-certificate/>)
- Sustainable Energy Systems (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/sustainable-energy-systems-graduate-certificate/>)

### Engineering Business

- Engineering Business (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/engineering-business-graduate-certificate/>)

### Engineering Management

- Engineering Economic Decision Making (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/engineering-economic-decision-making-graduate-certificate/>)
- Engineering Management (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/engineering-management-graduate-certificate/>)
- Lean Six Sigma (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/lean-six-sigma-graduate-certificate/>)
- Supply Chain Engineering Management (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/supply-chain-engineering-management-graduate-certificate/>)
- Technology Systems Management (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/technology-systems-management-graduate-certificate/>)

### Gordon Institute of Engineering Leadership

- Engineering Leadership (<https://catalog.northeastern.edu/graduate/engineering/multidisciplinary/engineering-leadership-graduate-certificate/>)

### Multidisciplinary

- Blockchain and Smart Contract Engineering (<https://catalog.northeastern.edu/graduate/engineering/multidisciplinary/blockchain-smart-contract-engineering-graduate-certificate/>)
- Software Engineering Systems (<https://catalog.northeastern.edu/graduate/engineering/multidisciplinary/software-engineering-systems-graduate-certificate/>)

### **Telecommunication Networks**

- Broadband Wireless Systems (<https://catalog.northeastern.edu/graduate/engineering/multidisciplinary/broadband-wireless-systems-graduate-certificate/>)
- IP Telephony Systems (<https://catalog.northeastern.edu/graduate/engineering/multidisciplinary/ip-telephony-systems-graduate-certificate/>)