

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 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/>) (Boston)

Civil and Environmental Engineering

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

Mechanical and Industrial Engineering

- AI Applications (<https://catalog.northeastern.edu/graduate/university-interdisciplinary-programs/ai-applications-graduate-certificate-bos/>) (Boston)
- AI Applications (<https://catalog.northeastern.edu/graduate/university-interdisciplinary-programs/ai-applications-graduate-certificate-sjo/>) (Silicon Valley)
- Data Analytics Engineering (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/data-analytics-engineering-graduate-certificate/>) (Boston)
- Data Analytics Engineering (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/data-analytics-engineering-graduate-certificate/>)—Online (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/data-analytics-engineering-graduate-certificate-online/>)
- Digital Platforms for Service Innovation (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/digital-platforms-service-innovation-graduate-certificate-bos/>) (Boston)
- Energy Systems (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/energy-systems-graduate-certificate/>) (Boston)
- Energy Systems Management (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/energy-systems-management-graduate-certificate/>) (Boston)
- Product Management (<https://catalog.northeastern.edu/graduate/university-interdisciplinary-programs/product-management-graduate-certificate-bos/>) (Boston)
- Renewable Energy (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/renewable-energy-graduate-certificate/>) (Boston)
- Sustainable Energy Systems (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/sustainable-energy-systems-graduate-certificate/>) (Boston)

Engineering Business

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

Engineering Management

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

- Technology Systems Management (<https://catalog.northeastern.edu/graduate/engineering/mechanical-industrial/technology-systems-management-graduate-certificate/>) (Boston)

Gordon Institute of Engineering Leadership

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

Multidisciplinary

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

Telecommunication Networks

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