

Engineering Leadership, Graduate Certificate (Boston)

The Gordon Engineering Leadership Program is a transformational, technical, and challenging graduate-level learning experience targeted for engineering professionals.

The Gordon Engineering Leadership Program directed by the Gordon Institute of Engineering Leadership offers a graduate certificate that pairs with over 25 master's degrees in the College of Engineering, College of Science, and Khourey College of Computer Sciences. The Gordon Program is a transformational graduate program designed to build a future corps of engineering leadership professionals.

Pursuing the graduate certificate allows participants to:

- Take part in a hands-on curriculum taught by industry-experienced professors
- Work with peers from across engineering fields on leadership skills development
- Receive one-on-one mentoring from industry experts and faculty

The Gordon Engineering Leadership Program anchors around an intense, market-worthy challenge project based on your organization's strategic needs. This is a unique opportunity to apply your classroom experience in a professional setting, potentially further accelerating your career.

How to Earn a Graduate Certificate in Engineering Leadership

If you already have a Master of Science, then you can complete the one-year program to earn a Graduate Certificate in Engineering Leadership.

If you do not have a Master of Science, then you can still be considered for the Graduate Certificate in Engineering Leadership if you have at least three years of engineering work experience.

Additional information can be found on the Gordon Engineering Leadership Program website. (<https://gordon.northeastern.edu>)

Beyond a Graduate Certificate

Most candidates pursue the Gordon Engineering Leadership Program as part of a Master of Science degree in the engineering discipline of their choice. Upon completion, they earn both a Master of Science degree and a Graduate Certificate in Engineering Leadership.

Students can enroll in the Engineering Leadership Graduate Certificate while pursuing the following degrees:

- MS Advanced and Intelligent Manufacturing (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/advanced-and-intelligent-manufacturing/>)
- MS Biotechnology (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-science/ms-in-biotechnology/>)
- MS Climate Science and Engineering (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/climate-science/>)
- MS Computer Science (<https://gordon.northeastern.edu/certificate-and-degree-options/khourey-college-of-computer-sciences/computer-science/>)
- MS Cybersecurity (<https://gordon.northeastern.edu/certificate-and-degree-options/khourey-college-of-computer-sciences/ms-in-information-assurance-and-cyber-security/>)
- MS Data Analytics Engineering (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-data-analytics-engineering/>)
- MS Engineering and Public Policy (select concentrations) (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-engineering-and-public-policy/>)
- MS Human Factors (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/human-factors/>)
- MS Robotics (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/robotics/>)
- MS Telecommunication Networks (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-telecommunication-networks/>)
- MSBioE Bioengineering (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-bioengineering/>)
- MSChE Chemical Engineering (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/chemical-engineering/>)
- MSCivE Civil Engineering (select concentrations) (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-civil-engineering/>)
- MSCSE Software Engineering Systems (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-computer-systems-engineering/>)
- MSECE Electrical and Computer Engineering (select concentrations) (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-electrical-and-computer-engineering/>)
- MSECLEL Electrical and Computer Engineering Leadership (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-electrical-and-computer-engineering-leadership/>)

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- MSEM Engineering Management (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-engineering-management/>)
- MSEN Energy Systems (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-energy-systems/>)
- MSENvE Environmental Engineering (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-environmental-engineering/>)
- MSIE Industrial Engineering (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-industrial-engineering/>)
- MSIS Information Systems (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-information-systems/>)
- MSME Mechanical Engineering (select concentrations) (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-mechanical-engineering/>)
- MSOR Operations Research (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-operations-research/>)
- MSSBS Sustainable Building Systems (<https://gordon.northeastern.edu/certificate-and-degree-options/college-of-engineering/ms-in-sustainable-building-systems/>)

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

| Code | Title | Hours |
|--|--|-------|
| ENLR 5121 | Engineering Leadership 1 | 2 |
| ENLR 5122 | Engineering Leadership 2 | 2 |
| ENLR 5131 | Scientific Foundations of Engineering 1 | 2 |
| ENLR 5132 | Scientific Foundations of Engineering 2 | 2 |
| Complete the following two courses based on the discipline of your master's program: | | |
| ENLR 7440 | Engineering Leadership Challenge Project 1 | 4 |
| or EECE 7440 | Electrical and Computer Engineering Leadership Challenge Project 1 | |
| or ENSY 7440 | Energy Systems Engineering Leadership Challenge Project 1 | |
| or IE 7440 | Industrial Engineering Leadership Challenge Project 1 | |
| or ME 7440 | Mechanical Engineering Leadership Challenge Project 1 | |
| or TELR 7440 | Technology Leadership Challenge Project 1 | |
| ENLR 7442 | Engineering Leadership Challenge Project 2 | 4 |
| or EECE 7442 | Electrical and Computer Engineering Leadership Challenge Project 2 | |
| or ENSY 7442 | Energy Systems Engineering Leadership Challenge Project 2 | |
| or IE 7442 | Industrial Engineering Leadership Challenge Project 2 | |
| or ME 7442 | Mechanical Engineering Leadership Challenge Project 2 | |
| or TELR 7442 | Technology Leadership Challenge Project 2 | |

Program Credit/GPA Requirements

16 total semester hours required

Minimum 3.000 GPA required