



*“The skills and knowledge I gained from the M.Eng. in Structural Engineering program gave me a true advantage as an entry-level engineer at my firm. I completed tasks that other entry-level engineers from traditional master’s programs could only perform after weeks of on-the-job training. It’s this **day one readiness**, including a comprehensive understanding of building codes, structural systems, and load paths, that makes leading design firms actively pursue Lehigh M.Eng. graduates.”*

Bobby Bruns, PE, M.Eng. '18, Project Engineer, Thornton Tomasetti

M.Eng. in Structural ENGINEERING

Graduate Degree Program | Full & Part Time | On Campus & Online

Prepare for careers in...

- Structural Analysis & Design for buildings, bridges, heavy civil, aerospace
- Forensic Engineering
- Protective Design
- Foundation Engineering
- Construction Management
- Building Enclosure & Historic Preservation
- Entertainment Engineering

The **M.Eng. in Structural Engineering** program prepares students for careers in the professional practice of structural engineering through a balance of theoretical behavior and practical design concepts. Students graduate prepared to address performance, sustainability, and public safety decisions for large-scale structural engineering projects.

Working in small groups, students apply their knowledge to the design of a real-world structure. Students utilize applicable codes to determine the demands on the structure, evaluate various structural systems, and design the full gravity, lateral, and foundation systems to support the structure. At the end of each semester, students present their findings to a panel of industry professionals, faculty, and alumni.

In the summer session, students learn about structural behavior through hands-on experiments, evaluating, predicting, measuring, and observing structural members tested to failure in our world-renowned Fritz Structural Engineering Laboratory.

Throughout the program, students have opportunities to interact with our industry partners and alumni. Students attend seminars by industry professionals, and learning is expanded outside of the classroom during field trips to active construction projects.

Full-time students complete the 30-credit program, which counts as a year of experience toward the professional engineer license, in as little as 10 months. Part-time students can complete the program over a longer time frame. Courses are offered both in person and online.

Industry Partners & Graduate Placement

Students in the M.Eng. in Structural Engineering program are regularly hired—with a **100% job placement rate prior to graduation**—by top firms and members of our extended network of industry collaborators.

- **AECOM**
- **Bala**
- **DeSimone Consulting Engineers***
- **Gilsanz Murray Steficek**
- **Hardesty & Hanover**
- **HDR**
- **KCI***
- **KL&A Engineers and Builders***
- **KPFF**
- **Magnusson Klemencic Associates**
- **McLaren Engineering Group**
- **Mueser Rutledge Consulting Engineers**
- **O'Donnell & Naccarato***
- **Severud Associates**
- **SGH***
- **SK&A**
- **Titan Engineers**
- **Thornton Tomasetti**
- **Walter P Moore***
- **WJE***
- **WSP** **Industry Partner*

Curriculum

SUMMER

Design Project I
Structural Behavior Laboratory

FALL

Design Project II
Mechanics and Behavior of Structural Members
Structural Dynamics
Technical Elective

SPRING

Design Project III
Structural Analysis II
Finite Element Method
Technical Elective



About Lehigh University

Recognized among the nation's premier research universities, Lehigh offers an academically rigorous experience to a community of more than 7,000 students.

Our small size, ideal student-to-faculty ratio, and vibrant campus allow students to collaborate on projects in and out of the classroom. Lehigh offers a "friendly community-oriented atmosphere on a hilly campus that is beyond beautiful," according to *The Princeton Review*.



engineering.lehigh.edu/structures

To learn more, please contact:

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