



*“Everyone is talking about machine learning today and **Lehigh’s optimization program is one of the top programs in the U.S.** As a graduate student, I spoke at conferences and co-authored multiple papers in a highly practical area of optimization—improving algorithm design for continuous optimization. My work helped **build a strong resume** and connections with industry.”*

Suyun Liu '22 PhD
Applied scientist at Amazon

Industrial and Systems ENGINEERING

Graduate Degree Programs

ON CAMPUS

- PhD, Industrial and Systems Engineering

ON CAMPUS AND ONLINE

- M.Eng., Healthcare Systems Engineering
- M.Eng. and MS, Industrial and Systems Engineering
- M.Eng. and MS, Management Science and Engineering
- MS, Financial Engineering
- MS, Data Science
- Certificate in Data Science
- Certificate in Healthcare Systems Engineering
- Certificate in Management Science and Engineering

Industrial and systems engineers optimize complex processes, systems, networks, investments, and organizations across nearly all sectors of society.

Lehigh University's graduate programs in industrial and systems engineering propel students into leadership roles in the engineering of leading-edge decision-making techniques using the most advanced data analytics, machine learning, and computational approaches.

Under the guidance of Lehigh ISE's world-renowned faculty, you will gain specialized technical knowledge and an interdisciplinary outlook that opens doors and overcomes obstacles.

From day one, you will join a welcoming, close-knit, and dynamic intellectual community that will elevate your trajectory and set you up to make a lasting impact—wherever your passions, curiosity and dedication take you.

Research

- **Mathematical optimization**
- **Data science and machine learning**
- **Stochastic models and optimization**
- **Applied operations research**
- **Quantum computing optimization**
- **Uncertainty quantification and complex systems**

Industrial and systems engineering research at Lehigh is supported by an array of public and private sponsors, including the National Science Foundation, Commonwealth of Pennsylvania, Office of Naval Research, U.S. Department of Energy, and U.S. Department of Defense.

Graduate Placement

- **Accenture**
- **Boeing**
- **IBM Research**
- **Amazon**
- **Goldman Sachs**
- **Merck**
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- **Geisinger Health System**
- **University of Chicago**

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Highlights

- **100%** funding of PhD tuition
- **Top 20%** in all industrial engineering rankings
- **5:1** student-to-faculty ratio
- **More than 50%** of faculty hold prestigious awards and/or international board positions



About Lehigh University

Recognized among the nation's premier research universities, Lehigh offers a rigorous academic community for over 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*.



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