Engineering Leader

Case Western Reserve offers four fully online master's programs: Online MS in Systems and Control Engineering, Online MS in Mechanical Engineering, Online Master of Engineering, and Online Master of Science in Biomedical Engineering. These programs are designed to help you advance your career and meet your future goals.

Explore the Online Master of Engineering

As a student in our online engineering master's programs, you can choose one of the following four concentrations:

1. Leadership and Interpersonal Skills
2. Technical Electives
3. Application Engineering
4. Technical concentration courses

The program offers a wide selection of technical electives in engineering disciplines such as biomedical engineering, manufacturing/systems engineering, electrical engineering, etc. We are excited to bring this degree to practicing engineers to help them maximize the market penetration of their designs.

In our innovative capstone course, you will:
- Work in teams to formulate problem-solving strategies
- Increase your workplace emotional intelligence
- Formulate and defend a technical proposal
- Communicate your technical understanding
- Work with your mentor to advance your career and meet your future goals.

Case Western Reserve is a wellspring of innovation. It consists of the following:
- 259 research awards
- 350 inventions, patents, deals
- $47.7 million in research, training and grant revenue
- 20 Nobel Laureates
- 131 industry partnerships
- 270+ industry hires
- 37 commercializations
- $12 billion in startup funding
- 5,300+ corporate affiliations
- 100,000+ alumni

When you enroll at Case Western Reserve, you become an integral part of one of the nation's most respected research institutions. Use our sterling reputation to your advantage.

Join the Case School of Engineering at Case Western Reserve as a premier private research institution with a well-deserved reputation for innovation and excellence.
The Online MS in Mechanical Engineering can be completed in as few as 18 months if you take two courses per term. It consists of the following:

5 technical electives
5 core courses
2 biomedical engineering core courses
2 engineering core courses
2 translational courses
2 electives
8 core courses
2 technical electives

Our online program is designed to provide students with depth and breadth in the field with courses in:
- Experimental and computational solid mechanics
- In areas such as fluid mechanics, combustion science, and extreme conditions. Our faculty brings this expertise and
- biomechanics, bio-manufacturing and engineering for
- inorganic materials and nanotechnology
- design and leadership skills.

Mechanical engineers with master's degrees reported wages between $91,010 and $140,760 per year, an estimated salary increase of $50,000 to $103,840 per year. Biomedical engineering is No. 6 on Monster’s list of best-paying master's degrees, with a median annual wage in 2018 was $87,370. Engineers are employed in all sectors, including automotive, defense, aerospace, healthcare, and biotechnology. Many report that the skills learned in engineering are transferable to a variety of roles and industries.

Find the Program That Fits Your Personal and Professional Goals

Six months (or higher level position at a new employer)
promotion 

We look forward to welcoming you to our community.

At Case Western Reserve, we produce great team leaders.

We look forward to providing you software and team projects with on-campus engineers online using dedicated simulation presentation and problem-solving skills to

In particular, we have focused on teaching

methodology, simulation, design and leadership skills.

In applications from aerospace to energy and biomedical

problems. Join us, and you will graduate with expertise in

systems.

The Online MS in Systems and Control Engineering can be completed in as few as 18 months if you take two courses per term. It consists of the following:

5 technical electives
5 core courses
2 technical electives
2 electives
8 core courses
2 technical electives

The Online MS in Biomedical Engineering can be completed in as few as 18 months if you take two courses per term. It consists of the following:

5 technical electives
5 core courses
2 biomedical engineering core courses
2 engineering core courses
2 translational courses
2 electives
8 core courses
2 technical electives

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Admissions Requirements

Personal statement; for the Master of Engineering, applicants with a non-engineering degree are preferred.

Differential equations required to demonstrate proficiency in calculus and technical areas from the four concentrations:

Leadership (EIML)

Leadership-focused courses as our on-campus programs

International applicants must also provide:

Proof of English proficiency (TOEFL, IELTS or PTE scores)

Application fee: $50

Two letters of recommendation from professional sources

Resume/CV

Scholarship Details

Exclusive Scholarship

3 Retrieved on May 16, 2019, from case.edu/cwruresearch/

4 Retrieved on May 16, 2019, from engineering.case.edu/research

5 Retrieved on May 15, 2019, from case.edu/cwruresearch/


7 Retrieved on May 16, 2019, from monster.com/career-advice/article/best-and-worst-paying-masters-degrees

8 Retrieved on May 16, 2019, from money.usnews.com/careers/best-jobs/rankings/best-engineering-jobs

9 Retrieved on May 16, 2019, from bls.gov/careeroutlook/2015/article/should-i-get-a-masters-degree.htm#STEM

10 Retrieved on May 16, 2019, from indeed.com/salaries/System-Engineer-Salaries

What to Expect from the Online Experience

Read Kaitlyn’s Spotlight

The Benefits of Online Learning at CWRU

You Deserve

Build the Career

How to Pay