**Case Western Reserve University**

**Welcome to Case Western Reserve University**

**Earn your engineering master's degree 100 percent online**

Case Western Reserve offers four fully online master's programs: MS in Mechanical Engineering, MS in Biomedical Engineering, Online Master of Engineering, and MS in Systems Engineering. These programs are designed to provide a strong technical foundation and develop leadership skills, preparing you to solve complex engineering problems in the modern workplace.

**About CWRU and the Case School of Engineering**

At Case Western Reserve, we are dedicated to providing a high-quality education and research environment. As one of the nation's top universities, we are committed to innovation and excellence. Our engineering programs are recognized for their quality and relevance, providing students with the skills and knowledge needed to succeed in the competitive engineering industry.

**Develop Your Leadership Skills**

In our innovative capstone course, you will work in teams to formulate problem-solving strategies, maximize the market penetration of your design, and lead a multidisciplinary team through a major engineering project, from design concept to final manufacture. This hands-on experience will help you develop your leadership and interpersonal skills, making you a valuable asset in any engineering role.

**Which program is right for you?**

- **Online MS in Mechanical Engineering**
- **Online MS in Biomedical Engineering**
- **Online Master of Engineering**

In our innovative capstone course, you will:

1. Complete the 30-credit online Master of Engineering in as few as 18 months if you take two courses per term.
2. Take four concentration courses.
3. Work with teams to solve complex engineering problems.
4. Participate in the development and manufacture of a product.
5. Form interdisciplinary teams to work on a major engineering project.

**Online Master of Engineering**

The online Master of Engineering program offers the following concentrations:

- Mechanical Engineering
- Biomedical Engineering

**Curriculum**

As a student in the online Master of Engineering program, you will take courses across multiple disciplines:

- EPOM 400: An integral core course in Leadership and Interpersonal Skills
- 4 technical concentration courses
- 1 core capstone course

**Spotlight on EPOM 400:**

In our innovative capstone course, you will:

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2. Maximize the market penetration of your design.
3. Lead a multidisciplinary team through a major engineering project, from design concept to final manufacture.

**Case School of Engineering**

The Case School of Engineering is a wellspring of innovation, contributing to major advancements in medicine, materials, advanced manufacturing, and more. We are home to the Department of Biomedical Engineering, which works with clinicians to solve health problems related to many diseases such as cancer, epilepsy, paralysis, stroke, and cardiac arrhythmias and infection.

**Case School of Engineering Leadership and Interpersonal Skills**

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2. Maximize the market penetration of your design.
3. Lead a multidisciplinary team through a major engineering project, from design concept to final manufacture.

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MS in Mechanical Engineering
and Control Engineering
Explore the Online MS in Systems
We look forward to welcoming you to our community.
At Case Western Reserve, we produce great team leaders.
systems.
in applications from aerospace to energy and biomedical
Learn from our expert faculty who are actively engaged
analysis, modeling, simulation, design and leadership skills.
We take a holistic look at issues and solve real-world

Curriculum

Program Director for the Online MS in
A Message From Sunniva Collins

The 30-credit 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

Finance
- Financial modeling
- Investment strategy
- Capital budgeting
- Financial management
- Risk management

In particular, we have focused on teaching

Mechanical engineers with master's degrees reported wages
between 9 and 13 percent more than those with a bachelor's
degree alone.9

In particular, we have focused on teaching

Biomedical engineering is No. 6 on Monster's list
of best-paying master's degrees, with a median
annual pay for engineers is $91,010.

We take a holistic look at issues and solve real-world
issues.
in applications from aerospace to energy and biomedical

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

Our department has a rich history of research and teaching

students. We look forward to providing you
with the fundamental tools and
expertise necessary to open up a wide
variety of possibilities in your current career
or as you take your next career step.

Thinking big at Case Western Reserve with Sunniva Collins, Ph.D.

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the fundamental tools and
expertise necessary to open up a wide
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or as you take your next career step.

The 30-credit 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:

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

median salary
$129,000
mid-career salary of $129,000 per year.7

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- 5 core courses

Leadership skills; statistics, organizational behavior,
Engineering management and problem-solving.

Find the Program That Fits Your
Career Path
Get the knowledge and experience to take your career
to the next level.

Best Paying Engineering Jobs

#3

Best Paying Engineering Jobs

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View Faculty

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Explore the Online MS in Mechanical Engineering

Disclaimer: All salaries are based on data from the Bureau of Labor Statistics. This data is used to place the jobs within their respective occupations and industries. The data is then used to project future salaries to account for inflation. This information is intended to guide, but not replace, independent human judgment when selecting a career. The data is presented only in general terms and is subject to change. The salaries shown are for jobs that require a bachelor's degree. The median annual wage in 2018 was $87,370.

For information about our third-party provider, please visit our Transparency Report.

Explore the Online MS in Systems and Control Engineering

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The Benefits of Online Learning at CWRU

- Learn from the same faculty as our on-campus programs who have a distinguished record of innovative research
- Tailor the program to your busy schedule
- Collaborate with peers from all over the country
- Take the same combination of highly technical and leadership-focused courses as our on-campus programs
- Gain access to the Case Western Reserve library
- It was certainly a challenging program like I thought it would be, but I was a little surprised at how easily I was able to manage it within my schedule. Being able to choose when I attended class let me plan out my weeks ahead of time.
  
  – KAITLYN LEWIS (CWRU, ’16)

What to Expect from the Online Experience

- Take courses via recorded audio and video lectures and through live one-on-one and group class sessions
- Access our LMS on desktop, tablet and mobile devices
- Track your progress with an online gradebook that informs you in real time of your status on all assignments, tests and course progress
- Exclusive Scholarship
  
  All qualified new applicants to our online engineering master's degree programs are eligible for a scholarship of more than $19,000, which is automatically applied to reduce tuition. No additional paperwork is required. Visit our website for full scholarship details and up-to-date tuition and fees.

More on the Online Experience

Additional Financial Aid Resources

- Read the step-by-step process to apply for aid as a graduate student
- Explore the financial assistance available for graduate students
- Review aid eligibility requirements for graduate students

Ready to take the next step?

Admissions Requirements

- Bachelor's degree (Bachelor of Science in engineering preferred)
- Applicants with a non-engineering degree are required to demonstrate proficiency in calculus and differential equations
- Transcripts
  
  • Personal statement; for the Master of Engineering, you must identify your and second choices of technical areas from the four concentrations:
    - Biomedical Engineering (EBME)
    - Engineering Innovation, Management and Leadership (EIML)
    - Mechanical Engineering (EMAE)
    - Systems and Control Engineering (SCS)
- MS programs only: We have temporarily suspended the GRE requirement for spring-fall 2024 applicants
- Resume/CV
- Two letters of recommendation from professional or academic sources
- Application fee: $50

International applicants must also provide:

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

How to Apply Guide

Additional Admissions Details

- You belong among the brilliant minds at the Case School of Engineering.
- Start your Case Western Reserve journey today, and take the next step toward becoming a well-rounded engineering leader.