Explore the Online Master of Engineering

Case Western Reserve offers four fully online engineering master's programs:

- Online MS in Systems and Control Engineering
- Online MS in Mechanical Engineering
- Online MS in Biomedical Engineering
- Online Master of Engineering

The program offers a wide selection of technical electives in the following areas:

- Manufacturing/Systems Engineering
- Electrical and Computer Engineering
- Biomedical Engineering
- Engineering Innovation, Management, and Leadership

Case Western Reserve by the Numbers

- 259 research awards
- 350 inventions, patents, deals
- $47.7 million in research, training and grant revenue
- 20 Nobel Laureates

Case Western Reserve is a Top 20 research university and is classified as a premier private research institution. U.S. News & World Report consistently ranks Case Western Reserve among the top national universities, best value institutions. Use our sterling reputation to your advantage.

Take Your Place as an Engineering Leader

When you enroll at Case Western Reserve, you become an Engineering Leader and Interconnected Skills

- Diverse technical background
- Core capstone course
- 5 core courses
- 4 technical concentration courses
- Work in teams to formulate problem-solving strategies
- Determine and sharpen your personal leadership style
- Increase your workplace emotional intelligence

A Message From Sree Sreenath

As Program Director for the Online Engineering, I can attest that the online Master of Engineering is an excellent choice for practicing engineers who want to further their education without the limitations of a traditional classroom setting. Our program is designed to provide a flexible yet rigorous curriculum that prepares students for leadership roles in the engineering field.

A Message From Dominique Durand

I am the Program Director for the Online MS in Systems and Control Engineering. Our program is designed to prepare students for leadership roles in the rapidly growing field of systems and control engineering. With a curriculum that emphasizes hands-on problem-solving and an interdisciplinary approach, our students are well-equipped to tackle the challenges of today's engineering landscape.

About CWRU and the Case School of Engineering

Western Reserve, we provide an immersive and supportive educational environment, and we are looking forward to working with you to help you achieve your goals. At Case Western Reserve, we are confident that this program will be well suited to your needs. At Case Western Reserve, we are committed to providing a high-quality education that prepares students for leadership roles in the engineering field.
We look forward to welcoming you to our community.

At Case Western Reserve, we produce great team leaders. Our students learn from our expert faculty who are actively engaged in research and teaching in applications from aerospace to energy and biomedical engineering. We focus on teaching problem-solving skills, analysis, modeling, simulation, design and leadership. Join us, and you will graduate with expertise in these areas.

Find the Program That Fits Your Interests

Explore the Online MS in Mechanical Engineering

The 30-credit online MS in Mechanical Engineering can be completed in as few as 18 months if you take two semesters of chemistry and one programming course. (with differential equations), two semesters of physics (with electromagnetics), Note:

8 core courses
2 electives
5 technical electives

The 30-credit online MS in Systems and Control Engineering can be completed in as few as 18 months if you take two semesters of chemistry and one programming course. (with differential equations), two semesters of physics (with electromagnetics), Note:

6 core courses
2 translational courses
2 biomedical engineering core courses
2 biomedical engineering core courses

Explore the Online MS in Systems and Control Engineering

In particular, we have focused on teaching extreme conditions. Our faculty brings this expertise and variety of possibilities in your current career.

The value of a Case Western Reserve Degree*

Nearly 90 percent of alumni who are employed report learning in the program in their current role. Over 90 percent of alumni changed or expect to change role function since beginning their career.

Median annual pay for engineers is $91,010.5 For mechanical engineering, biomaterials, health technology, biodesign, instrumentation and analysis fundamentals, process deployment, engineering economics, technical courses vary depending on concentration.

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

Find the Program That Fits Your Interests

Explore the Online MS in Biomedical Engineering

Our department has a rich history of research and teaching in biomedical engineering. We focus on teaching problem-solving skills, analysis, modeling, simulation, design and leadership. Join us, and you will graduate with expertise in these areas.

Find the Program That Fits Your Interests

Explore the Online MS in Biomedical Engineering

This online master's program will prepare students. We look forward to providing you software and team projects with on-campus engineers online using dedicated simulation technologies, materials properties, statistical analysis, process deployment, engineering economics, operations, and finance as related to the engineering field; leadership skills; statistics, organizational behavior, engineering management and problem-solving.

Find the Program That Fits Your Interests

Explore the Online MS in Mechanical Engineering

Curriculum

Program Director for the Online MS in Mechanical Engineering

A Message From Sunniva Collins

Program Director for the Online MS in Systems and Control Engineering

A Message From Vira Chankong

Curriculum

Program Director for the Online MS in Biomedical Engineering

A Message From Lucas Merkle

Program Director for the Online MS in Biomedical Engineering

A Message From Michael Cichon

Program Director for the Online MS in Biomedical Engineering

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View Top-Paying Engineering Jobs

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The Value of a Case Western Reserve Degree*
Online Master of Science programs
Application checklist for the
Online Master of Engineering programs
Application checklist for the

How to Apply Guide

The Benefits of Online Learning at CWRU

• Systems and Control Engineering (SCS)
• Mechanical Engineering (EMAE)
• Engineering Innovation, Management and Biomedical Engineering (EBME)
• Personal statement; for the Master of Engineering, applicants with a non-engineering degree are preferred.

Admissions Requirements

Q Differential equations required to demonstrate proficiency in calculus and technical areas from the four concentrations:
Q Leadership (EIML)
Q International applicants must also provide:
Q GRE scores may be required in response to concerns about the COVID-19 virus, MS applicants for spring - fall 2021 will not be required to submit GRE scores

Exclusive Scholarship

U.S. News & World Report Best Online Degree Programs 2019-2020

Federal Student Aid (FAFSA) to determine your aid eligibility.

For full scholarship details and up-to-date tuition and fees. Visit our website

Case Western Reserve is proud to offer the following Scholarships to qualified applicants:

First Step: Submit the FAFSA

Graduate from Case Western Reserve University Department of Engineering from graduating cohorts between 2016-2018.

Scholarship Details

• Scholarships are available for full-time and part-time students
• Scholarships are renewable for up to two years

Enrollment/Financial Assistance

Transcripts

Application fee: $50

Two letters of recommendation from professional

Wondering what it's like to earn your master's 100 percent online?

Kaitlyn’s Spotlight

Read Kaitlyn’s Spotlight

– KAITLYN LEWIS (CWR, ’16)

Check out Case Western Reserve's ranking in U.S. News & World Report Best Online Programs 2019-2020

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What to Expect from the Online Experience

Read the step-by-step process to apply for aid as a graduate student.

Learn from the same faculty as our on-campus programs

What to Expect from the Online Experience

Study the same blend of highly technical and leadership-focused courses as our on-campus programs

Gain access to the Case Western Reserve library

Collaborate with peers from all over the country

Take the same combination of highly technical and leadership-focused courses as our on-campus programs

Tailor the program to your busy schedule

Take courses via recorded audio and video

Access our LMS on desktop, tablet, and mobile devices

Track your progress with an online gradebook that informs you in real time

Take Kaitlyn’s Spotlight

Let me plan out my weeks ahead of time.

within my schedule. Being able to choose when I attended class

but I was a little surprised at how easily I was able to manage it

It was certainly a challenging program like I thought it would be,

– KAITLYN LEWIS (CWR, ’16)

You Deserve

Build the Career You Deserve

You Belong Among the Brilliant Minds at the Case School of Engineering.

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