Welcome to Case Western Reserve University, a premier private research institution. Use our sterling reputation to your advantage.

Case Western Reserve by the Numbers

- 350 inventions, patents, deals
- 328 awards and grants; $268.5 million in research, training and grant revenue
- 259 research awards; $47.7 million in research, training and grant revenue
- 270+ startups; $334.2 million in industry partnerships

Explore the Online Master of Engineering from the Case School of Engineering at Case Western Reserve University.

Why Case Western Reserve?
- A leader in the engineering field.
- Skilled and experienced faculty.
- A student-oriented educational environment.
- Industry partnerships.
- Strong technical background.
- Leadership concentration.

Online Master's Programs That Launch You Into Engineering Leadership

Explore the online master's programs offered by the Case School of Engineering.

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

As a student in our online engineering master's programs, working with you to advance your career and meet your future goals.

A Message From Dominique Durand, Ph.D.

A Message From Sree Sreenath

Brennan, Professor of Biomedical Engineering, provides insight into the importance of engineering in the medical industry.

A Message From John Varghese, Ph.D.

McKee, Professor of Biomedical Engineering, discusses the role of engineering in terms of research and development.

A Message From Dominique Durand

A Message From Sree Sreenath

We are excited to bring this degree to practicing engineers to help them maximize the market penetration of their design.

Curriculum

- 4 technical concentration courses
- 1 core capstone course
- 5 core courses

In our innovative capstone course, you will take EPOM 400, an integral core course in engineering innovation, management and leadership.

Spotlight on EPOM 400

As a student in our online engineering master's programs, you will take EPOM 400, an integral core course in engineering innovation, management, and leadership.

Case Western Reserve by the Numbers

- Started in 1968, the Department of Biomedical Engineering
- Cardiac arrhythmias and infection.
- Neural engineering, imaging, and Leadership concentration
- An expert in...
Explore the Online MS in Mechanical Engineering

Our online program is designed to provide students with the fundamental knowledge and skills necessary to excel in the engineering field. The program is offered in collaboration with the Department of Mechanical Engineering at Case Western Reserve University and is taught by distinguished faculty members with extensive experience in their respective fields.

The 30-credit online MS in Mechanical Engineering curriculum consists of five core courses, two technical courses, and an elective course.

- **Core Courses**
  - Design of Fluid Power Machinery
  - Dynamics
  - Microscale Technologies
  - Materials Properties
  - Statistical Analysis

- **Technical Courses**
  - Biomedical Engineering
  - Systems Engineering
  - Mechanical Engineering
  - Engineering Management
  - Problem-Solving

- **Elective Course**
  - Choose one course from the following:
    - Biodesign
    - Instrumentation and Analysis Fundamentals
    - Imaging
    - Physiology
    - Neural Engineering
    - Regulatory Aspects of Health Technology
    - Quality Assurance
    - Biomedical Engineering

- **Personal and Professional Goals**
  - Professional Ethics
  - Engineering Management
  - Problem-Solving
  - Leadership Skills
  - Engineering Economics
  - Project Management
  - Teamwork
  - Communication
  - Project Presentation

- **Application**
  - Apply now
  - View courses

- **In-State Tuition**
  - $129,000

- **Out-of-State Tuition**
  - $138,600

- **Why Study Mechanical Engineering?**
  - Median annual pay for engineers is $91,010.
  - For engineering managers, that salary jumps by over 40% to $140,760 in average.
  - For those who receive a master's degree in engineering, their median annual wage in 2018 was $87,370.
  - It is the No. 3 best engineering job, according to U.S. News & World Report.

Find the Program That Fits Your Personal and Professional Goals

Explore the Online MS in Systems and Control Engineering

Our online program is designed to provide students with the fundamental knowledge and skills necessary to excel in the engineering field. The program is offered in collaboration with the Department of Systems and Control Engineering at Case Western Reserve University and is taught by distinguished faculty members with extensive experience in their respective fields.

The 30-credit online MS in Systems and Control Engineering curriculum consists of five core courses, two technical courses, and an elective course.

- **Core Courses**
  - Analysis, Modeling Complex Systems and Signals
  - Control Analysis, Modeling, Simulation, Design and Leadership Skills
  - Automation, Robotics, and Engineering
  - Operations Research
  - Simulation

- **Technical Courses**
  - Biomedical Engineering
  - Systems Engineering
  - Mechanical Engineering
  - Engineering Management
  - Problem-Solving

- **Elective Course**
  - Choose one course from the following:
    - Biodesign
    - Instrumentation and Analysis Fundamentals
    - Imaging
    - Physiology
    - Neural Engineering
    - Regulatory Aspects of Health Technology
    - Quality Assurance
    - Biomedical Engineering

- **Personal and Professional Goals**
  - Professional Ethics
  - Engineering Management
  - Problem-Solving
  - Leadership Skills
  - Engineering Economics
  - Project Management
  - Teamwork
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  - Project Presentation

- **Application**
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  - View courses

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  - $138,600

- **Why Study Systems and Control Engineering?**
  - Median annual pay for engineers is $91,010.
  - For engineering managers, that salary jumps by over 40% to $140,760 in average.
  - For those who receive a master's degree in engineering, their median annual wage in 2018 was $87,370.
  - It is the No. 3 best engineering job, according to U.S. News & World Report.

Find the Program That Fits Your Personal and Professional Goals

Explore the Online MS in Biomedical Engineering

Our online program is designed to provide students with the fundamental knowledge and skills necessary to excel in the engineering field. The program is offered in collaboration with the Department of Biomedical Engineering at Case Western Reserve University and is taught by distinguished faculty members with extensive experience in their respective fields.

The 30-credit online MS in Biomedical Engineering curriculum consists of five core courses, two technical courses, and an elective course.

- **Core Courses**
  - Instrumentation and Analysis Fundamentals
  - Imaging
  - Physiology
  - Instrumentation and Analysis Fundamentals
  - Neural Engineering
  - Regulatory Aspects of Health Technology

- **Technical Courses**
  - Biomedical Engineering
  - Systems Engineering
  - Mechanical Engineering
  - Engineering Management
  - Problem-Solving

- **Elective Course**
  - Choose one course from the following:
    - Biodesign
    - Instrumentation and Analysis Fundamentals
    - Imaging
    - Physiology
    - Neural Engineering
    - Regulatory Aspects of Health Technology
    - Quality Assurance
    - Biomedical Engineering

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  - Professional Ethics
  - Engineering Management
  - Problem-Solving
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  - Engineering Economics
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  - Communication
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  - $138,600

- **Why Study Biomedical Engineering?**
  - Median annual pay for engineers is $91,010.
  - For engineering managers, that salary jumps by over 40% to $140,760 in average.
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  - It is the No. 3 best engineering job, according to U.S. News & World Report.

Find the Program That Fits Your Personal and Professional Goals
The Benefits of Online Learning at CWRU

1. Case Western Reserve is proud to offer the following Online Master of Science in Engineering (OMSE) Programs:
   - Biomedical Engineering (EBME)
   - Systems and Control Engineering (SCS)
   - Engineering Innovation, Management and Leadership (EIML)
   - Leadership (EIML)

2. What to Expect from the Online Experience
   - Use the code E00680

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

4. Exclusive Scholarship

5. 2 Retrieved on May 16, 2019, from case.edu/cwruresearch/
   - Start your Case Western Reserve journey today, and take the first step towards your future in the Case School of Engineering.

6. 1 Retrieved on May 15, 2019, from case.edu/cwruresearch/
   - You belong among the brilliant minds at the Case School of Engineering.

7. 7 Retrieved on May 16, 2019, from monster.com/career-advice/article/best-and-worst-paying-masters-degrees
   - Engineering supervisor salaries
   - What are the salaries for engineers in the USA?

8. 8 Retrieved on May 16, 2019, from money.usnews.com/careers/best-jobs/rankings/best-engineering-jobs
   - Engineering supervisor jobs
   - How do you become an engineer?

9. 9 Retrieved on May 16, 2019, from bls.gov/careeroutlook/2015/article/should-i-get-a-masters-degree.htm#STEM
   - Engineering supervisor career path
   - What are the typical duties of an engineering supervisor?

10. 5 Retrieved on May 16, 2019, from bls.gov/careeroutlook/2018/article/engineers.htm
    - Engineering supervisor requirements
    - What educational background is necessary for an engineering supervisor?

11. 4 Retrieved on May 16, 2019, from engineering.case.edu/research
    - Engineering supervisor career description
    - What does an engineering supervisor do?

12. 3 Retrieved on May 16, 2019, from usnews.com/best-graduate-schools/case-western-reserve-university-201645/overall-rankings
    - Engineering supervisor graduate school
    - Which graduate programs are highly ranked in the USA?

    - Engineering supervisor college
    - Which colleges offer the best engineering programs in the USA?

14. 1 Retrieved on May 15, 2019, from case.edu/cwruresearch/
    - Engineering supervisor program
    - Which engineering programs are offered at Case Western Reserve University?

4. How to Apply Guide
   - Start an Application

5. 3 Retrieved on May 16, 2019, from usnews.com/best-graduate-schools/case-western-reserve-university-201645/overall-rankings
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   - Start an Application