



# Water Resources Engineering

## Master of Science in Civil and Environmental Engineering

Investigate applied and theoretical problems and develop more sustainable uses of water resources with the Water Resources Engineering master's program at the University of Wisconsin-Madison.

### IS THIS PROGRAM RIGHT FOR YOU?

The Water Resources Engineering master's program at UW-Madison teaches you the scientific and engineering skills to evaluate, plan, and operate water resource and environmental systems.

Our program takes just one year to complete and focuses on a systems-based approach to managing water resources for societal benefit. A flexible curriculum allows you to customize your degree program to fit your personal objectives.

Build the expertise to analyze and design systems that control all aspects of the distribution of water to meet the needs of humans and improve natural resource management. You also analyze and solve scientific and engineering questions through field methods, laboratory experiments, remote-sensing techniques, numerical and statistical modeling, and analytic approaches.

With an MS in Water Resources Engineering, you develop strong quantitative skills in modeling, systems thinking, and sustainability science. Graduate ready to succeed in consulting firms, federal and state laboratories and agencies, and municipal and county governments—and place yourself at the forefront of rapidly developing and world-changing innovations.

### WHAT YOU LEARN

- The principles of water movement through the environment and how to best utilize it for municipal and industrial uses, agriculture, and natural ecosystems
- How to solve practical problems in hydrology; fluid mechanics; environmental flows in rivers, lakes, and coastal environments; and water resource management
- Creative, independent problem-solving and decision-making skills
- Expertise in the analysis and design of water distribution systems with a focus on improving natural resource management

### TIME FRAME

1 year

### MODE OF INSTRUCTION

Face-to-face on campus

### REQUIREMENTS

Coursework only, no thesis. At least 30 credits required for Master of Science degree.

### TUITION

Resident: \$6,090/semester  
+ \$3,002 for 6 summer credits  
Non-Resident: \$12,753/semester  
+ \$6,334 for 6 summer credits

*Tuition rates as of fall 2019. Additional fees may apply.*

### APPLICATION DEADLINE

December 15 for fall 2020 program

### TYPICAL CURRICULUM

- Hydraulic Engineering
- Open Channel Hydraulics
- Groundwater Hydraulics
- Hydrologic Design
- Hydrology
- Water Resources Systems Analysis
- Mixing and Transport in the Environment
- Coastal Engineering
- Hydroclimatology for Water Resources Management
- Ecohydrology

### LEARN MORE

[go.wisc.edu/waterresources](http://go.wisc.edu/waterresources)

### QUESTIONS?

Contact [cee.gradadmissions@engr.wisc.edu](mailto:cee.gradadmissions@engr.wisc.edu).