USC Viterbi
School of Engineering

RESEARCH AREAS:

Water Reuse and Desalination Technologies

Resource Recovery from Waste Streams

Environmental Chemistry

Contaminant Transport and Aquifer Remediation

Sustainable Energy

Urban Climate and Air Pollution

"There is an underlying sense of stewardship and a greater purpose embedded in the environmental engineering program, and that definitely made me feel at home."

Jessica Holmes
MS Environmental Engineering, '19

MS ENVIRONMENTAL ENGINEERING

Learn how to tackle water, air, and energy challenges that face our urban and natural environments. This world-class program combines integrated research, education, and industry partnerships to achieve sustainable supplies of water and energy, while improving air quality and the urban environment.

BENEFITS

- Evolving curriculum to meet society's pressing needs
- Specialized tracks in Air and Water
- Close-knit community of students and faculty
- Competitive career opportunities and collaborations with industrial and utility partners in Southern California

APPLICATION DEADLINES

Fall: January 15, 2024

Spring: September 15, 2023

**All applicants who submit a complete application by the deadline will be considered for partial, merit-based scholarships.*

USC University of Southern California

More Information:
uscengineer.com | cee.usc.edu

MEET OUR FACULTY

RESEARCH LABS & CENTERS

Air Quality Lab
Sustainable Systems Group
Water Innovations Laboratory
Water Reuse and Resource Recovery Center

Amy Childress

Researches membrane solutions for contaminant and energy challenges; systems of desalination and water reuse; colloidal and interfacial aspects of membrane processes; brine reduction and energy recovery

Felipe de Barros

Develops task-driven, application-oriented, integrated models for simulating, optimizing, and predicting flow and transport in hydrogeological systems

Daniel McCurry

Applies the tools of organic and analytical chemistry to environmental problems, particularly as applied to water reuse and drinking water treatment

Kelly Sanders

Uses system-scale analysis to develop frameworks to reduce the environmental impacts of providing energy and water and analyzes tensions between climate change adaptation and mitigation strategies

Adam Simpson

Investigates chemical exposures to people through food and water and how communities and socioeconomics interplay with these exposures

Adam Smith

Explores microbially-driven engineered processes for water management with an emphasis on resource recovery from waste streams

Constantinos Sioutas

Investigates the underlying mechanisms that produce the health effects associated with exposure to air pollutants generated by a variety of combustion sources, such as traffic, harbor, and airport operations, etc

Leslie Abdul-Aziz

Develops sustainable catalytic processes using an interdisciplinary toolset from materials and chemical engineering, and physical chemistry

Massoud Pirbazari

Conducts research on bio-physicochemical processes for drinking water treatment. He is currently conducting research on bio-membrane technologies for water reclamation

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▶ Scan QR code to learn more about our program, faculty, and research areas