



## 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**

# 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.*



**Jessica Holmes**  
MS Environmental Engineering, '19

"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."

# 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



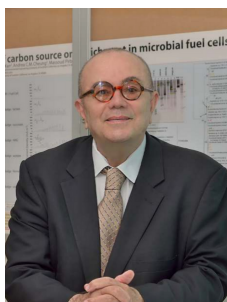
### Constantinos Sioutas

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



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