

MS, Environmental Engineering

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*



Scan to learn more about our Master's degrees and the Astani Graduate Scholars Program!

**All applicants who submit an application by the deadline are considered for merit-based scholarships. The Astani Graduate Scholars program offers engagement in academic and industry research, along with financial support.*

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.

WHY CHOOSE USC?

- We have an **evolving curriculum** to meet society's pressing needs.
- We collaborate with **industrial and utility partners** in Southern California.
- We have a **close-knit community** of students and faculty.
- Our graduates find **competitive career opportunities** through our industry connections.

SPECIALIZED TRACKS:

- Air and Climate
- Energy and Resource Recovery
- Water Quality and Reuse



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WHO SHOULD APPLY?

We invite excellent students from all backgrounds, including those from historically underrepresented groups in engineering, to consider applying to our graduate degree programs. Many apply with existing civil and environmental engineering degrees, but students with other backgrounds are encouraged to apply, though may require extra prerequisites to attain the degree.



OUR GRADUATES WORK AT

STANTEC, LA SANITATION &
ENVIRONMENT, LADWP,
BLACK & VEATCH, OC
WATER DISTRICT



SAMPLE COURSES:

- ENE 505: Energy and the Environment
- ENE 512: Environmental Fluid Mechanics
- ENE 527: Climate Change and Atmospheric Aerosols
- ENE 510: Water Quality Management and Practice

KEY FACULTY



Dr. Adam Smith

Microbially-driven engineered processes, water management, resource recovery from waste streams



Dr. Amy Childress

Membrane solutions for contaminants, desalination, water reuse, brine reduction and energy recovery



Dr. Kelly Sanders

System-scale analysis of environmental impacts, climate change adaptation and mitigation strategies



Dr. Felipe de Barros

Modeling for flow and transport in hydrogeological systems



Dr. Daniel McCurry

Water reuse and drinking water treatment



Dr. Leslie Abdul-Aziz

Sustainable catalytic processes using chemical engineering and physical chemistry



Dr. Jiachen Zhang

Modeling air quality, climate, and equity impacts of transportation, energy, and land use policies



Dr. Adam Simpson

Chemical exposures to people through food and water affected by communities



Dr. Constantinos Sioutas

Health exposure to air pollutants generated by a variety of combustion sources



Dr. Massoud Pirbazari

Bio-physicochemical processes for drinking water treatment; bio-membrane technologies for water reclamation