CEVE is for future leaders of smart & resilient cities. Graduates study global trends of mega-urbanization, population growth, climate change-related disasters, degrading infrastructure, air & water pollution/treatment, energy security, and decreasing natural resources.

Our challenges have never been clearer or more urgent.
CEVE
BUILDING SMART AND RESILIENT CITIES

OVERVIEW
• 13.5 Faculty + 1 Professor in the Practice
• 50 Undergraduate Students
• 62 Graduate Students
• 48 Doctoral Candidates
• 8 Masters Students & 6 Professional Masters
• 10 Postdoctoral Fellows
• Graduate Programs ranked 25 (Civ) & 15 (Env)
• ~$4.6M Annual research expenditure

DEGREES OFFERED
The department offers two degrees: B.S. Civil Engineering and B.A. Civil and Environmental Engineering. Both tracks offer students a robust curriculum, with small class sizes and hands-on opportunities for research and design.

B.S. Civil Engineering (ABET Accredited) – 133 hrs.
The B.S. is designed to prepare students for a career in engineering and offers innovative and challenging courses while still providing significant flexibility to the student.
Contact Dr. Bedient: bedient@rice.edu

B.A. Civil & Environmental Engineering – 122 hrs.
The B.A. offers a Civil or Environmental Engineering emphasis and allows both tracks to be tailored to the specific needs of each student.
Contact Dr. Tomson: mtomson@rice.edu

WHY CEVE?
Track Record: 100% job placement in the CEVE field
Student Research Opportunities: Get real life experience within a CEVE Center
ABET Accredited: B.S. Degree
Size: High faculty to student ratio
Flexibility: Four focus areas to choose from
Interdisciplinary: Leadership in the integration of expertise & use of advanced models for complex problems

LIFE AFTER THE PROGRAM
• Stay for a CEVE M.S. or Ph.D.
• Consulting
• Research Lab
• Industry
• Government
• Non-Profit

RESEARCH AREAS & INTERESTS
CEVE faculty offer an array of research interests in which undergraduate students have opportunities to get involved.
• Environmental Nanotechnology
• Urban Hydrology & Flood Prediction
• Air Quality and Environmental Policy
• Water Quality & Sustainable Water Management
• Hazardous Waste Remediation
• Dynamics of Smart Structures
• Computational & Stochastic Mechanics
• Reliability of Civil Infrastructure & Complex Urban Systems

BEYOND THE CLASSROOM
• Work for a Research Center
• Research in the Netherlands through NSF-PIRE
• Senior Design
• Internships with Companies & Government Agencies
• Complete Rice Faculty-Led CEVE Courses Abroad (TBA)

CHOOSE YOUR FOCUS
Environmental Engineering
Advisor: Dr. Mason Tomson
mtomson@rice.edu | 713.348.6048

Urban Hydrology & Water Resources
Advisor: Dr. Philip Bedient
bedient@rice.edu | 713.348.4953

Structural Engineering & Mechanics
Advisor: Dr. Satish Nagarajaiah
satish.nagarajaiah@rice.edu | 713.348.6207

Urban Infrastructure & Management
Advisor: Dr. Leonardo Dueñas-Osorio
leonardo.duenas-osorio@rice.edu | 713.348.5292

OPT FOR A MINOR IN SUSTAINABILITY
Students completing this minor in sustainability will be better prepared for the global society that is attempting to understand and address the challenge of meeting the basic needs of an expanding population in light of a clearer realization of natural resource limitations.
Advisor: Jim Blackburn | blackbur@rice.edu | 713.348.4246

RESEARCH CENTERS
NanoSystems Engineering Research Center for Nanotechnology-Enabled Water Treatment (NEWT) is applying nanotechnology to develop transformative and off-grid water treatment systems that both protect human lives and support sustainable economic development. For more info: newtcenter.org

The Severe Storm Prediction, Education and Evacuation from Disasters (SSPEED) Center organizes leading universities, researchers, emergency managers, and private and public entities to better address severe storm prediction and its impact on the Gulf Coast area. Check us out: sspeed.rice.edu

Nanosystems Engineering Research Center for Nanotechnology-Enabled Water Treatment (NEWT) is applying nanotechnology to develop transformative and off-grid water treatment systems that both protect human lives and support sustainable economic development. For more info: newtcenter.org

The Severe Storm Prediction, Education and Evacuation from Disasters (SSPEED) Center organizes leading universities, researchers, emergency managers, and private and public entities to better address severe storm prediction and its impact on the Gulf Coast area. Check us out: sspeed.rice.edu