As a member of one of the country's top-tier research universities, the College of Engineering & Computing (CEC) is actively engaged in cutting-edge studies and education and is home to top-level research laboratories and facilities. CEC has two schools - Moss School of Construction, Infrastructure and Sustainability; and the School of Computing and Information Sciences - and four departments - Biomedical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, and Mechanical and Materials Engineering.



# **CIVIL AND ENVIRONMENTAL ENGINEERING**



Engineering & Computing

engineering.fiu.edu Florida International University



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# FIU's Department of Civil and Environmental Engineering (CEE) is a leading resource for civil and

environmental engineering research and education in the southeast U.S. It is home to first-class academic programs, expert faculty members and world-class research centers equipped with state-of-the-art facilities.

As a part of the College of Engineering & Computing, students enjoy experiential learning opportunities and close interaction with *WorldsAhead* faculty. Through internship opportunities in the industry and hands-on research activities in cutting-edge laboratories, graduates are prepared to hit the ground running in their chosen careers.

## RESEARCH

The Department of Civil and Environmental Engineering (CEE) is renowned for its structural and transportation engineering research. The Accelerated Bridge Construction University Transportation Center (ABC-UTC) focuses on efficient bridge rehabilitation, replacement and workforce development. The NHERI Wall of Wind (WOW) Experimental Facility (EF), funded by the National Science Foundation (NSF), enables researchers to better understand wind effects on civil infrastructure systems and to prevent wind hazards from becoming community disasters. The Lehman Center for Transportation Research (LCTR) conducts research and training to improve transportation mobility and safety, and educate a multidisciplinary workforce to plan, manage, and implement transportation systems.

## FACULTY

Atorod Azizinamini, chair and ABC-UTC director, has developed several bridge engineering products and systems used worldwide. He received the 2015 White House Champion of Change: Transportation Innovator. Mohammed Hadi received Best Paper Awards from the Transportation Research Board (TRB) Travel Time, Speed, and Reliability Subcommittee, and the TRB Freeway Operations Committee. Kingsley Lau is the vice- chair of the Corrosion of TEG053X Reinforced Concrete Symposia. Seung Jae Lee serves on the Technical Committee 103: Numerical Methods in Geomechanics - (ISSMGE). Hesham Ali holds a patent for three-dimensional paving. loannis Zisis was awarded a Certificate of Outstanding Contribution in Reviewing by the Journal of Wind Engineering & Industrial Aerodynamics.

## PARTNERSHIPS

CEE boasts a number of multiuniversity and research partners and works with multiple funding agencies. ABC-UTC collaborates with the University of Nevada, Reno, University of Washington, Iowa State University and University of Oklahoma. Research partners include Southeastern Transportation Research, Innovation. Development and Education Center (STRIDE); Center for Urban Transportation Research (CUTR), Oak Ridge National Laboratory (ORNL) and various centers at FIU. Funding agencies range from the U.S. Department of Transportation (US DOT), National Science Foundation (NSF) and National Aeronautics and Space Administration (NASA) to the U.S. Environmental Protection Agency (EPA) and Florida Department of Transportation (FDOT), among several others.



POINTS OF PRIDE

2018 Charles Pankow Award\* to the Wall of Wind

1st University Transportation Center devoted solely to Accelerated Bridge Construction (ABC)

From the buildings we live in to the roads we drive on to the water we drink, the contributions of civil and environmental engineers affect our lives on a daily basis. CEE is working to educate a new generation of civil and environmental engineers who will ensure the safety and sustainability of the roads, homes, bridges and environmental resources of the future.

#### **GRADUATE DEGREES OFFERED**

- M.S. Civil Engineering
- M.S. Environmental Engineering
- Ph.D. Civil Engineering

#### COMBINED BACHELOR'S AND MASTER'S DEGREE (4+1) PROGRAM

The combined B.S. & M.S. Degree Program is an accelerated program designed for outstanding undergraduate students currently enrolled in the college who wish to pursue their M.S. degree while completing in the college their B.S. degree.

#### **RESEARCH HIGHLIGHTS**

- Accelerated bridge construction
- Wind effects on civil infrastructure systems
- Transportation mobility and safety
- Geotechnical engineering
- Environmental and water resources engineering

#### GRADUATE RESEARCH OPPORTUNITIES

- Bridge engineering
- Wind and structural engineering
- Transportation engineering
- Geotechnical engineering
- Environmental and water resources engineering

#### FACILITIES

Wall of Wind (WOW): Powered by a 12-fan system capable of up to 157 mph wind speeds

Titan America Structures and Construction Testing Laboratory: Supports development of innovative hurricane-resistant and durable construction materials, structural systems and components

Intelligent Transportation Systems (ITS): Real-time traffic video feeds used for planning for "normal" conditions, major emergencies and evacuations