

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.

## By the Numbers



# CONSTRUCTION, INFRASTRUCTURE AND SUSTAINABILITY





FIU's Moss School of Construction, Infrastructure and Sustainability is committed to its status as the preeminent center for advancement and dissemination of construction knowledge. Our motivated students, highly qualified faculty, and dedicated alumni work together to make the program one of the finest in the country.

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

Areas of research focus on infrastructure sustainability and resilience, virtual reality and building information modeling in construction, and also safety in construction. The school's mission is to provide leadership to the construction industry, improve working knowledge, and promote the interdisciplinary transfer of technology. Graduates enjoy excellent employment opportunities with South Florida being one of the nation's busiest geographic regions in construction.

FACULTY

The school's faculty members – made up of both full-time and adjunct faculty – have extensive and diversified experience in all aspects of construction management and are keen on passing these experiences to students. They are committed to excellence in research and to providing effective and practical solutions to the challenges facing our nation and local community. Irtishad Ahmad serves on the editorial board of ASCE Management in Engineering, and is also a fellow of ASCE. Jose Faria recently received a training grant from the Occupational Safety and Health Administration (OSHA) Susan Harwood Training Grant to provide three hours of contact training to six hundred (600) English and Spanish speaking workers and employers on the topic of Fall Prevention in Construction.

PARTNERSHIPS

In partnership with the Department of Civil and Environmental Engineering, part of FIU's College of Engineering & Computing under which the Moss School of Construction, Infrastructure and Sustainability is also housed, students may pursue doctoral research opportunities. With advising and support from the construction faculty, students may pursue research in construction engineering and management while earning a Ph.D. in civil engineering. The Moss and Associates Built Environment Informatics Lab (BEIL), a result of an industry partnership, is equipped with cutting-edge visualization and surveying technologies to facilitate teaching and research. The BEIL hosts a wall-mounted VR system, head mounted VR devices, laser scanner, 3D printer, physiological sensing devices, 360 and depth cameras, and robotic arm and DIY kits.



GRADUATE DEGREES OFFERED

- M.S. Construction Management
- Online M.S. Construction Management
- Ph.D. Civil Engineering (interest in Construction Engineering and Management)

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

- Risk management and decision making
- Sustainability and "green" construction
- Information technology
- Infrastructure systems and management
- Safety and health
- Construction education

GRADUATE RESEARCH OPPORTUNITIES

Students may conduct research in the following areas:

- Safety
- Virtual reality
- Building information modeling
- Disaster mitigation

FACILITIES

**Built Environment and Informatics Laboratory (BEIL):** A virtual reality CAVE (Computer Augmented Virtual Environment) in which faculty can conduct visualization research by rendering design in 3D

POINTS  
OF PRIDE

**\$155,000**  
grant to provide free training  
for fall protection (OSHA)

Multiple awards from  
**Associated Builders  
and Contractors' Construction**  
Management Competition

**\$10 MILLION**  
gift to school by  
**Chad Moss, EVP,  
Moss & Associates**

The Moss School of Construction, Infrastructure and Sustainability strives to produce professional construction managers who are informed and participating citizens with a sense of duty and responsibility, whose actions express high moral and ethical standards, and who understand the impact of their work on society.