

College of ENGINEERING & COMPUTING

Moss School of Construction, Infrastructure and Sustainability

RESEARCH

The Moss School of Construction, Infrastructure and Sustainability is committed to excel as a preeminent center for the advancement and dissemination of construction knowledge. A highly qualified faculty, along with dedicated alumni who partner with the school, contribute to it being one of the finest programs in the country. Research focuses 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. Irishad 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 3 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 & Environmental Engineering (interest in Construction Engineering & Management)

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

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

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

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