Be part of the transformation of

ENGINEERING AND COMPUTING EDUCATION

FIU's School of Universal Computing, Construction, and Engineering Education (SUCCEED) is focused on engineering and computing education research and design. Formed in 2018, in conjunction with the STEM Transformation Institute, it is the first engineering and computing education department at a minority-serving institution. As a faculty member, you would have the opportunity to help build a program and a community that connects educational research and innovation.

Come join our mission-driven community!

DIVERSE FACULTY COMMUNITY

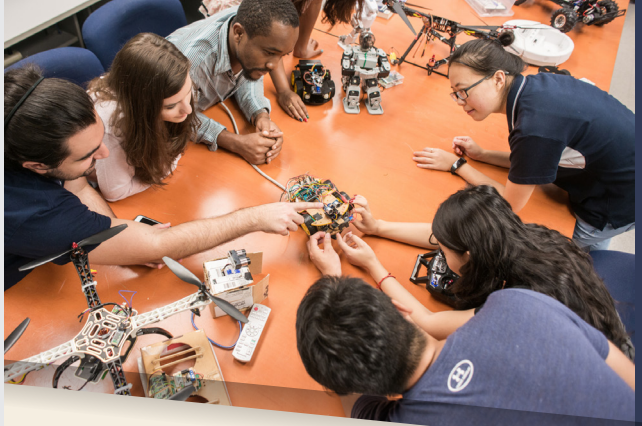
- With undergraduate degrees in engineering science, computer science, and aerospace engineering
- With a variety of industry and academic experiences

PLANNED DEGREES

- B.S. Interdisciplinary Engineering
- Ph.D. Engineering and Computing Education

RESEARCH HIGHLIGHTS

- Breadth of research spaces (classroom, K-12 setting, industry) and populations
- Grants from a variety of agencies and foundations
- Collaborations with Center for Diversity and Student Success in Engineering & Computing, STEM Transformation Institute, and a diverse set of higher education institutions



SUCCEED faculty research and promote evidence-based approaches that broaden participation and improve the educational success of current and future engineering and computer science students at FIU and beyond.

Equity, Diversity & Inclusion
Core values and principles of our research, teaching, and community engagement

Leadership & Collaboration
Key learning areas for our graduates at both the undergrad and doctoral levels

Industry Partnerships
Critical collaborators on research and curricular projects to prepare future leaders and change agents

Research Community
Supportive environment for intellectual growth and the development of future scholars

FIU | Engineering & Computing

For more information contact, Mark Weiss, weiss@fiu.edu | **succeed.fiu.edu**

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Why pursue a degree in **engineering & computing education research?**

As a student in **FIU's ENGINEERING AND COMPUTING EDUCATION PH.D. PROGRAM,** you will conduct and direct research in engineering or computing education, develop your skills as an educator and leader and address critical issues facing engineering and computing education, especially in equity, diversity, and inclusion.

Job opportunities:

- Faculty in an engineering or computing education department
- Faculty in an engineering or computer science department
- Administrators of diversity, service-learning, first-year or similar programs
- Research scientists in academia, government, or industry
- Instructional designers in academia or industry
- Non-profit foundation directors or staff
- Workforce development & training specialists
- Designers for education-based products
- K-12 STEM administrators, program directors, or instructors
- Science museum administrators or exhibit designers
- Policymakers
- ***and many more!***

COMMUNITY

At FIU, discipline-based education research (DBER) is part of the culture and integrated within many departments, allowing for cross-disciplinary engagement.

DIVERSITY AND INCLUSION

Diversity and inclusion are at the core of FIU's culture and SUCCEED strives to support equity and inclusion of all backgrounds, perspectives and experiences.

CONNECTIONS

In Miami, we have strong connections to the community, including Miami-Dade and Broward county schools and local businesses. As an international hub, Miami offers opportunities for impact both locally and globally.

INNOVATION

From Day 1, you will be an innovator in engineering and computing education as we co-create this program. You will engage in a collaborative research environment that will prepare you for wherever your path leads you after FIU.

PLANNED DEGREES

- B.S. Interdisciplinary Engineering
- Ph.D. Engineering and Computing Education

RESEARCH AREAS

- **Evidence-based practices** for teaching courses in K-12, undergraduate and graduate school, in diverse modalities: face-to-face, hybrid, and/or online
- **Student Experiences** (at all levels), including their motivation in a given context, career pathway, identity development, etc.
- **Ways of thinking, knowing, and doing** in engineering and computing (How do practicing engineers make decisions as they are designing something? How do engineers collaborate?)
- **Equitable and inclusive learning environments** for students, staff, and educators
- **Educational systems** that impact change efforts, leadership and policy within engineering and computing education, and the structures and individuals at every level

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