FIU | Engineering & Computing
FLORIDA INTERNATIONAL UNIVERSITY

Miami
65% Hispanic/Latino
18% Black/African-American

Miami-Dade County Public Schools
4th largest public school district
62% Hispanic/Latino
25% Black/African-American

FIU College of Engineering & Computing
5878 students/39% Pell; R1 Public Doctoral Univ.
68% Hispanic/Latino   19% Women (12% Latinas)
18% Black/African-American

Ranu Jung, March 30, 2016

Our K-12 Story: Comprehensive Program at Scale

Competency & Knowledge Dissemination

Awareness & Engagement

Early College Education

Engaging the next wave of engineers and computer scientists

Engagement & Awareness

- **Engineering Expo**
- **Engineers on Wheels**

= ⬆ **29% engagement**

Competency and Knowledge Dissemination

- **Miami Prep** (Since 1996)

- **ENLACE** (Engaging Latino Communities for Education, since 2000)

- **Summer Transportation Camp** (since 2015)

=

5-week summer program for grades 3-12; pre and post tests

15 years; + 350 students in grades 4-12 annually

- **After School Programs**

- **Math AP Tutoring** (The Algebra Project)

=

10 years; 200 students at 5 local elementary schools

5 high schools, Saturday classes Projects linked to Math

College Credit & Teacher Training

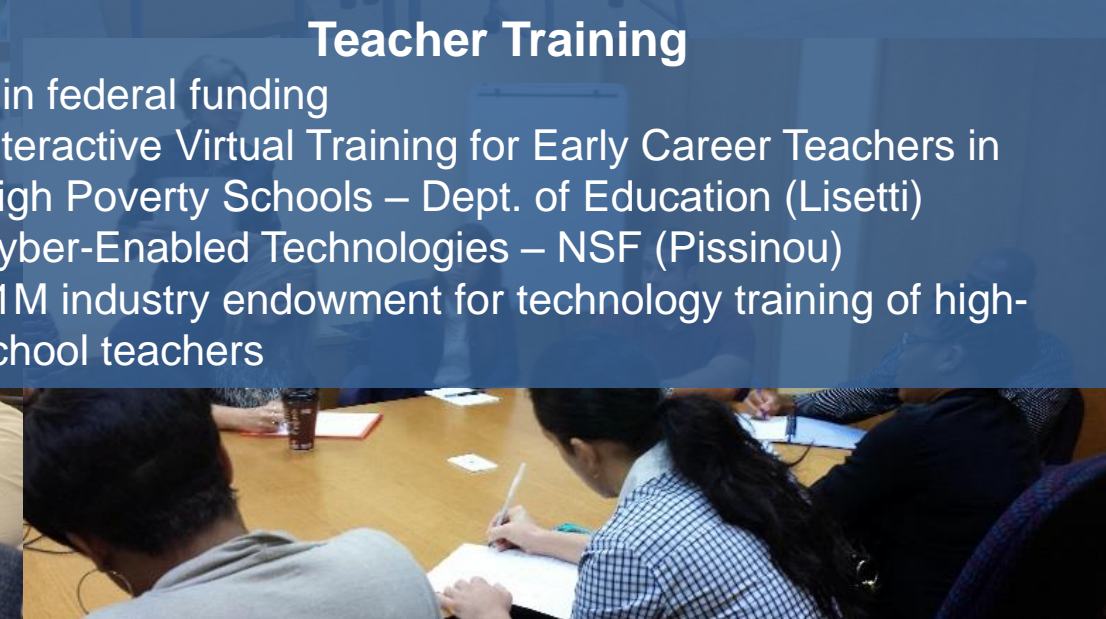**FIU | Engineering & Computing**
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Dual Enrollment
- Cohort-based
- On-campus
- 20-30 students per semester

Teacher Training

+1M in federal funding
- Interactive Virtual Training for Early Career Teachers in High Poverty Schools – Dept. of Education (Lisetti)
- Cyber-Enabled Technologies – NSF (Pissinou)
- $1M industry endowment for technology training of high-school teachers

At-Scale Laboratory for Implementing and Evaluating Strategies to Propel Students from Populations Underrepresented in STEM

- Meet a need in the community: Engage and Enhance Awareness
- Enhance K-12 in-reach/outreach: Build Competency through Knowledge Dissemination
- Improve Education: Infuse College Curriculum into High Schools; Educate Teachers

Engaging, Educating and Empowering the next wave of engineers and computer scientists

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