Civil and Environmental Engineering Department Overview

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CEE Mission

- Create infrastructure for a sustainable, livable, and equitable world
  - Sustainable, resilient, infrastructure
  - Clean water and air for all

- Achieved through
  - **Innovation** in civil and environmental engineering education and research
  - **Impact of our alumni** in our core research areas

- A collegial, collaborative and welcoming environment in which to learn and work
CEE Faculty/Graduate Student Statistics 2020-21

- 23 Faculty Members
- 69 PhD Students (FTE)
- 110 MS Students (FTE)
- 47% Female Grad Students
CEE: an International Graduate Program

- Brazil
- Chile
- China
- Colombia
- Germany
- Honduras
- India
- Iran
- Israel
- Jamaica
- Mexico
- Nepal
- Nigeria
- Peru
- Portugal
- Saudi Arabia
- Singapore
- South Korea
- Taiwan
- Thailand
- Trinidad and Tobago
- Turkey
- USA
What Makes CEE@CMU Unique?

• Focus in **emerging areas** for the field - unique compared to more traditional departments

• Innovative, **flexible** graduate programs
  - Advanced Infrastructure Systems (AIS)
  - Environmental Engineering, Sustainability, and Science (EESS)
  - Mechanics, Materials and Computing (MMC)

• **Interdisciplinarity** in education and research
  - Cross-listed courses; 6 faculty joint appts (EPP, Arch, Heinz); collaborative research
US News & World Report 2021 Graduate Program Rankings

8 - Environmental Engineering

10 - Civil Engineering

4 - College of Engineering
Graduate Focus Areas and Concentrations

- **AIS**
  - Smart Structures
  - Smart Facilities and Infrastructure Systems
  - Smart Transportation /Mobility

- **EESS**
  - Climate Change Adaptation (CERCA)
  - Air Quality Engineering and Science (CACES)
  - Sustainable Water/Remediation
  - Environmental Decision Support

- **MMC**
  - Mechanics, Data Science, and Materials
  - Mechanics, Structures, and Materials

- **Cross-Cutting Programs**
  - Civil and Environmental Engineering Data Analytics
  - Energy Infrastructure Systems
  - Civil and Environmental Systems Engineering
  - Materials for Environmental Systems