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 Values

• Our People are our Core Strength
• Respect for All
• Collegiality
• Integrity
• Excellence
• Innovation
• Interdisciplinarity
• Community Engagement
• Continuous Improvement
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