Department of Structural Engineering
Overview
Faculty: 24

UG Students: 588

MS Students: 127

Ph.D. Students: 67
CIVIL STRUCTURES

- Earthquake Engineering
- Blast Protection
- System Identification
- Design and Computation

People

- Joel Conte
- Gil Hegemier
- Tara Hutchinson
- Enrique Luco
- Gilberto Mosqueda
- Jose Restrepo
- Benson Shing
- Chia-Ming Uang
- Lelli Van Den Einde (Engineering Education)
GEOMECHANICS

- Seismic Response of Soils and Foundations
- Soil-Structure Interaction
- Thermal-Hydro-Mechanical Behavior of Soils

People
- Ahmed Elgamal
- Tara Hutchinson
- Enrique Luco
- John McCartney
COMPUTATIONAL MECHANICS

- Large Deformation Problems
- Fluid-Structure Interaction
- Isogeometric Analysis
- Impact/Blast
- Mesh-free Finite Element Methods
- Multi-scale Materials Modeling
- Biomechanics

People
- Yuri Bazilevs
- David Benson
- Jiun-Shyan Chen
- Petr Krysl
VISUALIZATION, HERITAGE STRUCTURES

- Virtual Reality
- Distributed and Remote Visualization of Large Data Sets
- Image Data Analysis
- Cultural Heritage Diagnostics

People
- Falko Kuester
AEROSPACE STRUCTURES
- Aviation Safety
- Impact on Aircrafts
- UAVs
- Structural Optimization
- System Identification
- Composite Materials

People
- Alicia Kim
- Hyonny Kim
- John Kosmatka
STRUCTURAL HEALTH MONITORING/ NDE
- Damage Detection
- NDE
- Sensors
- Prognosis

People
- Joel Conte
- Francesco Lanza di Scalea
- Kenneth Loh
- Michael Todd
BIOLOGICAL STRUCTURES, BIOMIMETICS, MATERIALS

- Nano Materials
- Cell Structures
- Porous Materials

People
- Robert Asaro
- Yu Qiao
- Qiang Zhu
SME Building

Charles Lee Powell Labs for Large-Scale Testing

General Campus

Englekirk Structural Engineering Center
Aerospace Structures Lab
Advanced Composites Labs
Aviation Safety Lab
Computation Lab
Geomechanics Labs
Materials Research Labs
Structural Health Monitoring & NDE Labs
Visualization Lab
SRMD TESTING FACILITY

Base-Isolation Devices

Rubber Isolator

Friction Pendulum Isolator

I-40

Benicia-Martinez
ENGLEKIRK STRUCTURAL ENGINEERING CENTER

Large High Performance Outdoor Shake Table (LHPOST)

Blast and Impact Simulator

Soil-Structure Interaction (SSI) Testing Facility
Thank you!