

DAY AT THE

2024 ENGINEERING SHOWCASE







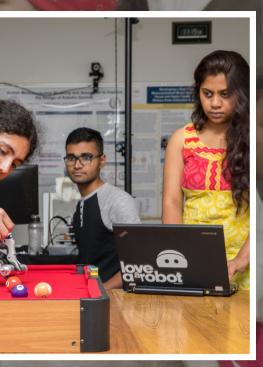
Welcome to The Beach

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DEAN JINNY RHEE



Undergraduate Engineering Programs











Research Funding (2022-2023)

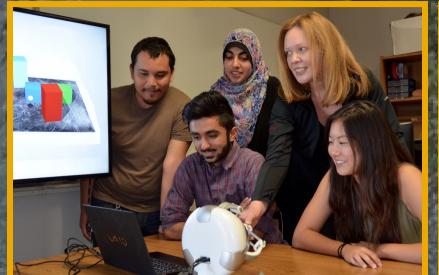


Student Orgs & Clubs



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Departments & Programs
Engineering Student Success Center
Project-Based Learning
Research
Senior Design Expo
Beach Women in Engineering Conference
Dean's Advisory Council
Grand Challenges













- **Engineering Management** (Environmental Engineering) Science

- Biomedical Engineering Chemical Engineering Civil Engineering & Construction Computer Engineering & Computer • Electrical Engineering (Computer Engineering Technology)
- Mechanical & Aerospace Engineering

Departments 8 Programs



Engineering Student Success Center

First-Year Experience

Beach XP/BESST





Advising

Tutoring in Major Courses



Professional Development & Networking Engineering Honors Track



RESEARCH

- Over \$25 Million in grants and contracts in the last five years
- More than 60 active faculty researchers
- Over 100 technical publications annually, mostly with students as co-authors
- CSULB elevated to R2 status in 2022

 Transportation •Autonomous Vehicles Sustainable Buildings Coastal Sustainability Rocket Propulsion Environmental Sustainability Wind Energy Chips Design •Cyber Security Artificial Intelligence Boiling Sustainable Construction Materials •Optical Communications •Smart Prosthetics •Bioinformatics •High Impact Materials •Smart Materials •Composite Materials •Electric Vehicles •Water Resources and Contaminations Emission Control Technology •Smart Buildings























BEACH Women in Engineering Conference

• 75+ Speakers, including recent grads, technical experts & senior leaders Majors Sponsors: Southern California Edison, Port of Long Beach, Hyundai, & More

• Direct connections via Coaching Circles, Speed Networking





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GRAND CHALLEGES FOR ENGINEERING

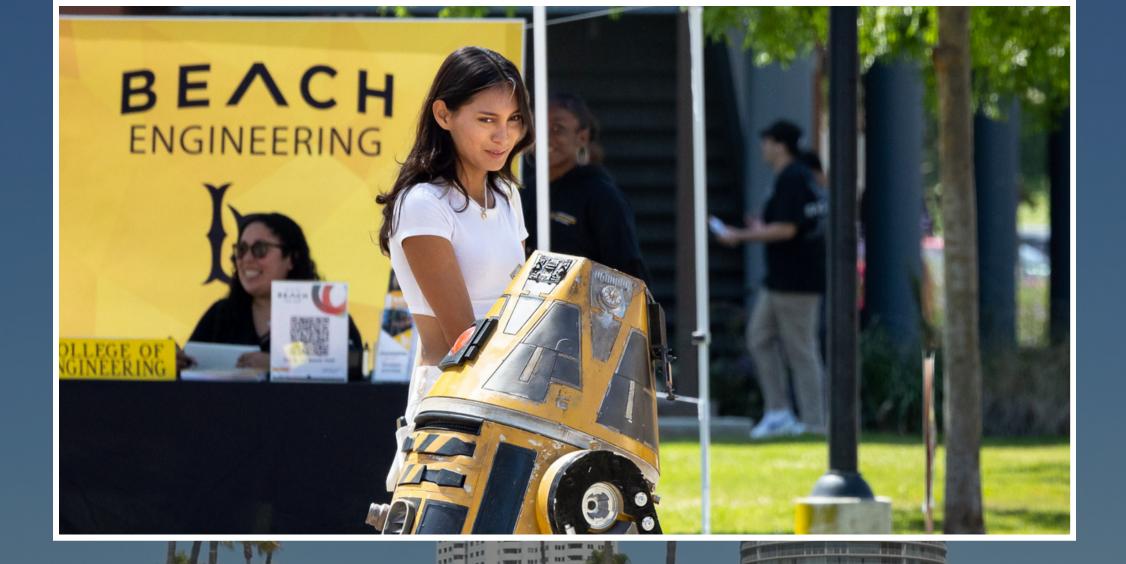


- Advance Personalized Learning Infrastructure
- Make Solar Energy Economical Enhance Virtual Reality Reverse-Engineer the Brain Engineer Better Medicines Advance Health Informatics Restore and Improve Urban Secure Cyberspace Provide Access to Clean Water Provide Energy from Fusion

- Prevent Nuclear Terror
- Manage the Nitrogen Cycle
- Develop Carbon Sequestration Methods • Engineer the Tools of Scientific
- Discovery







-Digital map online -All departments in Quad -Meet 10 minutes before lab tour -Please ask questions and Have fun!



