ERDC Projects
Here’s a sample of ERDC project collaborations...

- Assisting medical professionals in developing sensing and data storage systems for treatment of disease
- Developing wheelchair designs
- Conducting computer-aided seismic analysis of buildings
- Designing/manufacturing adjustable and accessible furniture, adaptive equipment, and devices for disabled persons
- Designing an alpha-wave controller for disabled persons
- Conducting technical studies: vibration studies of buildings, rail safety studies, cable wear studies, water usage studies, pavement condition surveys, etc.
- Developing full-wave electromagnetic models for high data rate circuits
- Developing computer-based plant monitoring and warning systems
- Developing a computer program to predict pipeline leakage
- Researching/analyzing: motor control devices, anchorage devices, motion control devices, instrumentation, etc.
- Designing/producing/implementing a network of self-powered audible way-finding devices (*Winner of the 2006 Professional Ground Management System Green Star Award for Urban University Grounds*)

These are just some of the ERDC’s collaborative projects. For information on additional projects, visit:
http://engineering.sfsu.edu/erdc
Real-world learning opportunities for talented students

The ERDC Difference
At the ERDC, we work with industry to provide real-world opportunities to engineering students. Our interdisciplinary learning environment inspires students to improve their technical knowledge base and prepares them to become socially and environmentally responsible engineers. The ERDC is based in the School of Engineering at San Francisco State University—an epicenter of diverse student talent near the heart of the Bay Area tech industry.

How it Works
Your company or agency sponsors a project. Our cross-disciplinary team of talented students earns academic credit for working on your project, and a faculty expert supervises the process.

The ERDC Provides a Wide Range of Professional Services:
- Research and study processes/materials/technology to meet project goals
- Create detailed and conceptual designs
- Provide general engineering advice
- Develop "green"/sustainability/accessibility projects
- Run simple experiments to collect data
- Provide engineering modeling services
- Conduct safety/usage/feasibility studies
- Perform equipment efficiency analysis
- Develop operation systems/strategies/guidelines
- Provide troubleshooting services (in methods, procedures, workflow, etc.)
- Define and develop product solutions
- Design pilot programs
- Produce and test prototypes
- Produce engineering plans/drawings/documentation
- Produce technical and project reports

Help shape a college student’s future

When you work with the ERDC, you have access to a diverse pool of student talent from four major disciplines: civil, computer, electrical, and mechanical engineering. Our dedicated, emerging engineers offer you the flexibility and "outside the box" thinking to perform a wide range of tasks in a cost-efficient manner. The ERDC can assist you in all phases of a project, from conceptual blue-sky ideas to practical implementation. Your sponsorship will help students realize their potential and assist them in making valuable contributions to their fields, while at the same time, satisfying your objectives.

Benefits of Working With the ERDC:
- Cost-effective project solutions
- Recognition for supporting higher education and for supporting minority and underrepresented students
- Employee recruiting opportunities
- Opportunities to complete projects that have been delayed for lack of staffing
- Access to university faculty experts

Help Talented Students Realize Their Potential. Make a Tax-deductible Donation to the ERDC Today!
You can also support the ERDC without sponsoring an engineering project by making a tax-deductible donation. Your donation is an investment in a talented student's future. All contributions go directly to supporting student projects.

For more information please contact the Director of the ERDC:
(415) 338-1174 or edcemail@sfsu.edu

Emerging Engineers
Committed to Excellence
Our reputation is built on a commitment to value and performance.
The ERDC has a proven track record of working collaboratively with a wide range of industries, both large and small, public and private. The ERDC has provided cost effective solutions to corporations, industries, governmental agencies, municipalities, health care organizations, and school districts.

ERDC Collaborations
The ERDC has worked with a diverse range of companies, both large and small, for profit and non-profit, including:
- California Public Utilities Commission
- California Department of Transportation
- Chevron Corporation
- Caltrans
- Pacific Gas & Electric
- Lockheed Martin
- University of San Francisco California Hospital
- NASA Ames Research Center
- Centers for Disease Control
- Hewlett-Packard Inc.
- Pacific Bell
- National Security Agency
- U.S. Department of Education
- United Airlines
- Through the Looking Glass
- Dames and Moore, Inc.
- Settle Laboratories
- San Francisco State University