Research Expo Showcases the Work of our Graduate Students

2005 208 posters presented at Research Expo

Jacobs School Enrolls 5,500 Students

Largest engineering school in UC System
One of every four UCSD students is an engineering student
Team Internships Success
Systems Engineering/Design Experience for Students on Real Projects
Independent Work, Fresh Ideas for Companies
Companies Requesting Summer 05 Team Internships To Date

• ABIOMED
• Delta Design
• Gen-Probe
• Lockheed Martin Orincon
• Lockheed Martin Space and Missle Systems/Sunnyvale
• NASSCO
• Qualcomm
• Raytheon
• SAIC
• Solar Turbines
• SPAWAR/SSC-1
• SPAWAR/SSC-2 (UAV)
• The Lederman Project (Mass General Hospital)
• Von Liebig Center

14 Companies requested team Internships (half are new requests)
Teams in Engineering Service (TIES)
Off To Great Start
40 students participating in design projects

Lakeside River Park Conservancy Project
Sensor networks to monitor water quality
Designs for equestrian and hiking bridges

St. Paul’s Senior Homes & Services Projects
Database electronic charting system for nurses
Sensor-based smart furnishings for seniors
Jacobs School New Faculty 04/05

Massimo Franceschetti
Electrical & Computer Engineering

Tara Javidi
Electrical & Computer Engineering

Ranjit Jhala
Computer Science & Engineering

Gabriel M. Rebeiz
Electrical & Computer Engineering

Tajana Simunic Rosing
Computer Science & Engineering

P. Benson Shing
Structural Engineering

Daniel Tartakovsky
Mechanical & Aerospace Engineering

Qiang Zhu
Structural Engineering
National Academy of Engineering Members

Stanford Penner 1977
Y.C. Fung 1979
Victor Rumsey 1980
Fred Noel Spiess 1986
Robert Conn 1987
James Lemke 1988
Forman Williams 1988
Jack Wolf 1993
Larry Smarr 1995
Shu Chien 1997
John Watson 1998
Sungho Jin 1999
Paul Libby 1999
Frieder Seible 1999
Frank Talke 1999
Sia Nemat Nasser 2001
William Kuperman 2004
Geert Schmid-Schönbein 2005
Geert Schmid-Schoenbein
Elected to National Academy of Engineering

Citation: For improvements to our understanding of white blood cell activation and their effect on medicine and pharmacology.
Computer Science & Engineering Building

Finished: Mid-March
Move-In: June/July
Dedication: Sept 2005
Calit2 Building

Finished: June/July

Move-In: July/August

Dedication: Oct 2005
Robert and Natalie Englekirk
Structural Engineering Center

Engleirks’ Provided $1.5 Million Gift
for Fellowships, Scholarships, Research
Center for Networked Systems (CNS): Technologies for Robust, Secure, Open Networked Systems

Andrew A. Chien, Director

Partners include AT&T, Alcatel, HP, QUALCOMM, Sun Microsystems
NSF Information Technology Research Program Has Invested $45 Million for 24 Projects at UCSD Since 2002

UCSD is a leader for the largest collaborations in each of the last three years

Optical Networking Infrastructure
$13.5M (2002-2007)  
With University of Illinois and 4 other partners

Responding to Crises and Unexpected Events “RESCUE”
$12.5M (2003-2008)  
With UC Irvine and 3 other partners

Laboratory for Ocean Observatory Knowledge “LOOKING”
$3.9M (2004-2009)  
With University of Washington and 3 other partners
von Liebig Technology Advancement Services

80 Faculty received advisory services
39 Seed Grants awarded totaling $1.8M

Results to Date

• 9 inventions have been licensed, including 7 to start-up companies
• several more in near-term pipeline for commercialization
Jacobs School Corporate Affiliates Program
CAP Partnership with Companies
Value-Added Benefits

• Customized Access to Students
• Research Partnerships
• Voice in Future of Engineering Education
Development of Engineering at UCSD

Start of Engineering at UCSD 1964

Division of Engineering 1982

School of Engineering 1994

Current Departments

Future Departments

Aerospace Engineering Program

Computer Engineering Program
Info Tech

Materials Science Program
NanoTech

Chemical Engineering Program

Environmental Engineering Program

Aerospace Engineering Program

The Irwin & Joan Jacobs School of Engineering 1997

CSE

ECE

BIOE

MAE

SE

Computer Engineering Program

Materials Science Program

Chemical Engineering Program

Environmental Engineering Program

Aerospace Engineering Program

Bioinformatics

Syst. Grp.
Engineering Advances in Healthcare