SUPERB-IT

Summer Undergraduate Program in Engineering Research at Berkeley – Information Technology





Electrical Engineering and Computer Sciences College of Engineering University of California, Berkeley www.eecs.berkeley.edu/Programs/superb/superb.html

Program Overview

Objective:

 To increase diversity in the information technology graduate school pipeline by affirming students' motivation for graduate study and strengthening their qualifications

Strategy:

 Offer talented underrepresented undergraduate engineering students the opportunity to gain research experience by participating in ongoing research with electrical engineering and computer sciences faculty and graduate students

What makes SUPERB-IT unique?

 The goal of serving underrepresented minority and underserved students

Program Components

Undergraduate Research

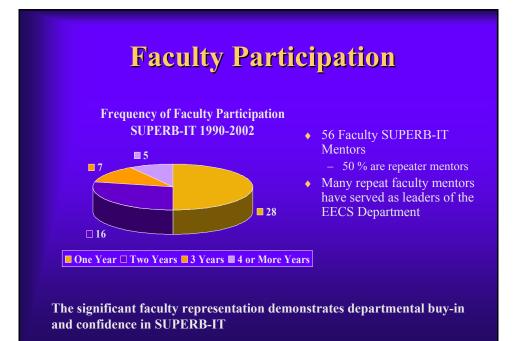
- 8-week research project in IT
- Faculty and graduate student mentors
- Written technical reports and oral presentations

Educational Activities

- Expose students to the various research areas at UCB
- Industry Field Trips, tours of research facilities, and research group presentations

Graduate Study Preparation

- <u>Workshops</u>: Graduate application process, fellowship and financial aid information, graduate academic life
- GRE preparation course



Evaluation Methodology

Pre-Program

 Short-term corrections such as research mismatches, insufficient mentoring, or logistic difficulties

Post-Program

- Students' and graduate mentors' perception of the value of SUPERB-IT experience
- Longitudinal follow-up
 - 1990-1998
 - 1996-2001 (67% response rate)

Participants & Graduate Study

66% of participants pursued graduate study

Degree Type	No. of Participants
PhD	4
MS	18
JD	1
MBA	1
PhD Pipeline	18
MS Pipeline	3
Applying to Graduate School	12

Key Accomplishments

- Program is perceived by students to have increased their motivation to aspire to graduate school
- Students from smaller institutions with no Ph.D programs were learning about research universities for the first time
- Students Leverage Research
 - Continuity of research at undergraduate institution
 - Dissemination of research: presentations, publications
- Support for graduate applications

Challenges

- Anti-affirmative action legislation and its affect on SUPERB-IT student diversity
- Faculty Availability
- Fiscal Sustainability



Background Slides

California Anti-Affirmative Action Legislation

UC Board of Regents Standing Policies SP1, SP2 – July 1995

- SP-1 eliminated consideration of race and gender in the admission of students to the university.
- SP-2 eliminated race and gender as considerations in UC's hiring and contracting practices, except where such action would result in the university's loss of federal or state funds.
- The first full entering freshman class admitted under SP-1 enrolled at UC in fall 1998.

Proposition 209 – November 1996

 Prohibits consideration of race and gender in state employment, education and contracting programs – <u>regardless of the University of</u> <u>California's Regental or administrative policies.</u>



