Summer@CENS: a research internship program

Karen Kim, Wesley Uehara, Richard Guy, Christine Borgman, Jeffrey Burke, Deborah Estrin, Becca Fenwick, Jeffrey Goldman, Eric Graham, William Kaiser, Joe Kim, Jennifer Jay, Christine Lee, Olmo Maldonado, Keith Mayoral, Mani Srivastava, Gaurav Sukhatme, John Wallace

CENS Summer High School & Undergraduate Scholars Programs

The Summer High School & Undergraduate Scholars Programs, affectionately referred to as our Summer@CENS Program, is the core of our Center educational pipeline. As a Center initiative, the Summer@CENS Research Scholars Program is designed to: a) Provide underrepresented US students the opportunity to conduct forefront research; b) Provide underrepresented US students with the opportunity to engage in a scientific community with their peers, graduate students and faculty members; and c) Increase the number of underrepresented US students who pursue graduate education in engineering and the physical sciences. In doing this, we strive to provide participants with insight into the world and the possibilities of academic research and graduate school.

KEY PROGRAMMATIC COMPONENTS

Recruitment & Selection of Participants & Mentors

Thematic Project Planning – Aligning Research & Education Initiatives

Immersion Programs

•Undergraduate Tech Camp – 2 day trip to James Reserve (CENS test-bed)
•Tech Intro for High School Scholars & Ropes Course
•Tutorials – 1 day intensive training/exposure activity
•Lab Immersion – Introduction to host lab

Professional Development Workshops

•High School – Ethics Seminar, Faculty Showcase, Educational Pathways, Intern Rap
•Undergraduate – Mentor Reflection, Ethics Seminar, Faculty Showcase, Post-graduation Opportunities, Intern Rap & GRE prep course

Weekly Progress Meetings

Social Activities

One-on-one Meetings with Program Staff

Culmination Events

•Final Paper
•Poster Session
•Final Dinner

2008 High School Demographics
Gender: 4 Female (27%)
Citizenship: 15 US Citizens (100%)
Diversity: 6 Underrepresented Minority (40%)

2008 Undergraduate Demographics
Gender: 4 Female & 8 Male
Citizenship: 12 US Citizens
Diversity: 4 Underrepresented Minority
Majors: Biology, Computer Science, Computer Engineering, Electrical Engineering

The Summer@CENS Program takes a holistic approach at providing an opportunity to experience our academic research environment. Participants gain experience and the self-confidence to make informed choices regarding their academic pathways, as well as develop relationships with our Center and the research conducted. As a research initiative, the participating labs benefit both from the work that the interns conduct as well as the vested interest students develop to their work. As pointed out in the CENS Intel Scholars Program, local students continue to make progress on their projects through the academic year.

CENS Intel Scholars Program

The CENS Intel Scholars Program, is joint venture between the Center for Excellence In Engineering and Diversity (CEED), Henry Samueli School of Engineering & Applied Science and Intel. Through this program we are able to provide meaningful research experiences to UCLA students during the academic year; as well as, provide continued support to summer students that would like to continue to make progress on their research.

KEY PROGRAMMATIC COMPONENTS

Professional Talks
•Genevieve Bell, Intel Anthropologist
•Giang Diao, Intel Research
•Ajey Jacobs, Intel Research
•Chi On Chui, Intel Research
•Ben Greenstein, Intel Research
•Lakshman Krishnamurthy, Intel Research
•Lama Nachman, Intel Research

Monthly Progress Report Meetings

Final Poster Session

Center Integration
•Technical Seminars
•CENS Coffee Hour
•Annual Research Review
•Ethics Discussion

Graduated: Continuing Graduate School: Returning to CENS (under grad)
19 15 (81%) 6

UCLA – UCR – Caltech – USC – UC Merced