Program Overview

- **8-10 Week Program**
  - 8 Week for High School, Undergrads 8 week with optional 2 week extension
  - Direct involvement in hands on research in a nationally recognized lab
  - Professional development, workshops and networking events
  - Preparation for educational and career pathways

Participating Research Labs

- **Summer 2010**
  - Professor Deborah Estrin - Participatory Sensing
  - Professor Jenny Jay - Rapid Water Quality Detection
  - Professor Bill Kaiser - Sensor Kit and Sustainability
  - Professor John Wallace - Seismic Sensing
  - Professor Bahram Jalali - Integrated Optics
  - Professor Diana Huffaker – Integrated Optics
  - NEES REU Program

Description of Evaluation Methods

- **Focus Groups**
  - Pre-program and Post-program, gender and academic level specific

- **Surveys**
  - Pre-program and Post-program, High School and UG specific

- **Electronic Journals**
  - Week 3, Week 5 and Week 7

- **Observations**
  - Lab environment, Seminars, Meetings

2010 Participant Demographics

<table>
<thead>
<tr>
<th>Undergraduate at REU (42)</th>
<th>High School Students (93)</th>
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<tbody>
<tr>
<td>Gender: 72 Females (65%)</td>
<td>Citizenship: 22 US Citizens (54%)</td>
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<tr>
<td>Diversity: 9 Underrepresented Minority (20%)</td>
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<tr>
<td>CENS High School Scholars Program (23)</td>
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<tr>
<td>Gender: 6 Females (55%)</td>
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</tr>
<tr>
<td>Diversity: 15 Underrepresented Minority (49%)</td>
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<tr>
<td>Citizenship: 21 US Citizens (49%)</td>
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Using What We Have Learned…To Improve What We Do

**Program**

- Year 1 -- 13 Undergraduates: Research experiences, program supported by UCLA-CARE
- Year 2 -- 42 Undergraduates: Women@CENS funding, gender/diversity seminars, mixed group mentoring
- Year 3 -- 24 Undergraduates: Tech Camp, Weekly Progress Meetings, One-on-one meetings
- Year 4 -- 23 Undergraduates: Integrated approach to diversity workshops, development of teams all connected to theme
- Year 5 -- 14 Undergraduates: Build on successes of previous years, maintain alumni relationships, final year of program funding, program partially supported by UCLA-AGEP
- Year 6 -- 12 Undergraduates 15 High School Students: Introduction of weekly writing workshops for Undergraduates, High School Program introduced formally as part of UCLA-LAUSD “Into The Loop” Alliance
- Year 7 -- 22 Undergraduates 17 High School/Community College Students: Obtained REU funding, introduced hands-on ethics workshop and created new model for involving High School students in participatory campaign development
- Year 8 -- 22 Undergraduates 23 High School/Community College Students: Created opportunities to involve students from partnering centers in the program

**Evaluation**

- Obtain funding for more students
- Need to enhance sense of community
- Organically integrate diversity vs. training intervention
- Obtain funding to continue program
- Assign full time mentors for high school scholars
- Increase interaction between high school and undergrads
- Increase communication on technical road map

High School Results

- % Females “Somewhat Likely” or “Very Likely” to pursue a Masters Degree in:

- % Males “Somewhat Likely” or “Very Likely” to pursue a Masters Degree in:

Undergraduate Results

- Satisfaction with new knowledge, skills, engagement in research

“I think that it's important and useful to have multiple people with different specialties because they can bring different things to the table.” – Male Participant

“I guess I have come to realize that I had a misconception that research… was all that ivory tower stuff and that it didn’t affect the real world as much as working in industry or for a non-profit… [I learned] that you can affect people from an academic position as well as working in the field.” – Female Participant

Before this year I always kind of laughed off grad school… this summer especially has gotten me really excited to work in a academic setting so I am positive that I am going to apply to grad school.” – Female Participant