CENS Education Overview


CENS Education objectives

- Increase the number and diversity of students pursuing advanced degrees in information technology-related fields
- Increase interest, knowledge (and use) of ENS technology

CENS has developed education programs that...

<table>
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<tr>
<th>Build the pipeline to graduate school (and beyond)</th>
<th>Create a community of researchers</th>
<th>Integrate education with research</th>
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<td>Diversity</td>
<td></td>
<td>Evaluation</td>
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Supporting the pipeline to graduate school

Pre-College | Undergraduate | Graduate | Post Graduate

Promoting interest and knowledge of ENS technology

Pre-College Science Education
- Inquiry Modules for middle school science
- Education Tools using acoustic and image sensing
- Google CS4ALL Teacher Workshops
- HS-SEAS High School Internships
- CENSEI, web-based curriculum portal
- Education Research

Undergraduate Research Programs
- Undergraduate level ENS courses
- Summer @ CENS Internship Program
- CENS Intel Scholars Program
- Women @ CENS

Graduate Student Programs
- Graduate level ENS courses
- Research Fellowships
- Multidisciplinary research teams
- Technical Seminars & Networking Events
- Professional Development Opportunities
- Graduate Student Recruitment Activities

Diversity and Gender Equity Initiatives
- Women @ CENS: A Research System
- Hands-on Future Tech Conference
- Collaboration with local and national partners
  - Regional community colleges & universities
  - Professional organizations
  - Science and Technology Centers

Data Management
- Research on scientific data practices
- Research questions address the initial stages of the data life cycle, including:
  - Data characteristics, sharing, policy and architecture

Evaluation
- Monitoring diversity statistics
- Formative and summative evaluation

Ethics Program
- Promoting understanding of ethics issues
- Discussing implications of ENS technology

CENS Education Websites
- Providing online resources for educators and students:
  - www.cens.ucla.edu/Education
  - www.nsfstc.org

CENS Education Websites
- UCLA – UCR – Caltech – USC – UC Merced