What can Senior Project Sponsorship do for your company?

Partner with Cal Poly, Enable students and Learn by Doing

Connect Your company with Prospective EE Graduates
Senior Project Resources

- 33 Full time plus adjunct Electrical and Computer Engineering staff
- 35,000 ft² of dedicated lab and project space
- Decades of Senior Project successes; +120 Senior Project students for 2019-20 term, potential of +70 Senior Projects!
35,000 ft² of Electrical & Computer Engineering lab space to work with!
Previous Senior Projects

- POLAR BASED 3D PRINTER
- 15 AXIS VIRTUAL GLOVE
- V-GLOVE
- STEADY CAM
- IOT SMART BLINDS
Example Sponsored Senior Project

mCube, Inc. Sponsored:
- Jointly scoped project, Paid up front Fee
- Supplied all key micro 3axis accelerometer components
- Dedicated mCube technical advisors meeting weekly + design reviews for during of project

Student & faculty:
- 3 EE students, 3 CPE students
- Dedicated Faculty advisor (Murray)
- Senior Project and Capstone Labs

Results:
- 3 quarter duration (Fall 16-Spring 17) completed at Expo 17
- Multiple design, test, iteration cycles to Customer MVP
- Successful customer demo of “gestures to sign language”
Call to action!

We want +10 more of these industry sponsored projects for Fall Term 2019

Please contact us and submit your project proposal to Rich Murray @ rimurray@calpoly.edu or Braun @ dbraun@calpoly.edu by Sept 19, 2019

If YOU are not the decision maker, please forward me the appropriate contact in your company

5 Steps to Sponsoring a Project

- Identify a company champion and contact Murray, Braun, or Derickson
- Draft & deliver an Initial Project Proposal (see attached form)
- Iterate to an agreed project including type, timing, and funding
- Pay sponsorship Fee and execute ISSP paperwork (see attached steps)
- Initiate pre-project logistics
Reference Slides

Project Sequencing Schedule

Sponsoring Options

Misc, including Graduate information

Primary Contact Information

Dennis Derickson  
Electrical Engineering Dept. Chair  
California Polytechnic  
San Luis Obispo, CA 93407  
805-756-7584 office  
805-712-9168 mobile  
ddericks@calpoly.edu

Rich Murray  
EE and CPE Lecturer  
Senior Project Coordinator  
California Polytechnic  
San Luis Obispo, CA 93407  
805-550-8513 mobile  
rimurray@calpoly.edu

David Braun  
Professor  
Senior Project Coordinator  
California Polytechnic  
San Luis Obispo, CA 93407  
858-756-1464  
dbraun@calpoly.edu
### Projects Sequencing Schedule

<table>
<thead>
<tr>
<th>Spring 19</th>
<th>Summer 19</th>
<th>Fall 19</th>
<th>Winter 20</th>
<th>Spring 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Define and Gather Project Ideas and sponsorship</td>
<td>Summer Undergraduate Research Program</td>
<td>Project Definition, Market Analysis and Early Design</td>
<td>Design/Prototype Iterations &amp; Reviews</td>
<td>Final Design and Project Delivery College Project Expo</td>
</tr>
</tbody>
</table>

#### EE Senior Project Sequence
- EE460
- EE461
- EE462

#### CPE Senior Project Sequence
- CPE350
- CPE450/CPE461
- CPE462

#### EE599 Masters Project – Can Start and End at Any Time
## EE/CPE Project Sponsorship Options

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Deliverable</th>
<th>Finances</th>
<th>Management</th>
<th>Term</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Faculty Defined and Sponsored</td>
<td>Best Effort No deliverables of potential commercial value</td>
<td>Department Project Fund or Faculty Research Account</td>
<td>Faculty member is strong mentor for students</td>
<td>3 Qtrs</td>
<td>Project expenses supported through Department Project Fund supported by donations by Alumni &amp; Faculty.</td>
</tr>
<tr>
<td>2 - Non-Profit Organization, or other funding source</td>
<td>No deliverables of potential commercial value to sponsor</td>
<td>Sponsor covers project Expenses, no overhead fee.</td>
<td>Faculty mentor, plus Organization Liaison during meetings</td>
<td>3 Qtrs</td>
<td>Run as donation to Cal Poly. Limited expectations for involvement of sponsor. No NDA. No ability to revoke funds, no expectation of financial reporting</td>
</tr>
<tr>
<td>3 - Non-Profit Organization &amp; Industry Sponsored</td>
<td>Reasonable Effort, deliverables may be of commercial value to sponsor.</td>
<td>Sponsor covers project Expenses plus $5K fee to cover overhead and to add to Department Project Fund for all students</td>
<td>Faculty mentor, plus Organization Liaison, Moderate Industry interaction</td>
<td>3 Qtrs</td>
<td>Deposited into Sponsored Programs Dept. Fund Project account with 5% Admin Fee. No NDA. ISSP agreement signed without changes. See following page for details</td>
</tr>
<tr>
<td>4 - Industry and/or Non-Profit Organization,</td>
<td>Reasonable Effort, deliverables which may be of commercial benefit to sponsor.</td>
<td>Sponsor covers project Expenses via either Cost reimbursable or fixed price contract</td>
<td>Faculty mentor, plus Organization Liaison, Strong Industry interaction</td>
<td>3 Qtrs or longer</td>
<td>Custom Contract, project with sponsored programs. Cal Poly has 38% overhead rate. May be with/without NDA</td>
</tr>
<tr>
<td>5 - Summer Under Graduate Research Program</td>
<td>No deliverables to sponsor which might provide commercial benefit</td>
<td>$5K per student ($1K to advisor, $2.5K to Student, $1.5K for supplies)</td>
<td>Faculty member is strong mentor for student(s) over 8+ week Summer period</td>
<td>8 – 12 weeks</td>
<td>Run as donation Cal Poly. No sponsor involvement. No Contract, No NDA, No Deliverables</td>
</tr>
</tbody>
</table>
ISSP (Industry Supported Senior Project) process

Once a project and sponsor/client are identified (Project Proposal Submitted – see next slide) and accepted, the next steps involve working with your Cal Poly liaison (Derickson, Murray, or Braun) who will create a packet containing the following forms to be submitted to the Cal Poly Grants Development Office:

- **Class Project Sponsorship and Intellectual Property Agreement**
- **NDAIP-1 or NDAIO Form** - having to do with confidentiality with/without IP assignments
- **700 U Conflict of Interest Form(s)** – signed by member named in the NDAIP-1 / NDAIO
- **PAF Information Form** - dealing with potential human add/or animal subjects and any bio-hazards

Once these forms are completed, signed, submitted, and accepted, your liaison will work with you as sponsor/client to obtain confirmation payment to university, official commencement of sponsored project can then begin.

Note: Intellectual Property choices are flexible using forms chosen
Submit your Project proposal with this information:

1. Contact information:  
   Name_________________  
   Title_________________  
   Company_______________  
   Email_______________  
   Phone______________

2. Which sponsorship you are interested in (option 1 – 5)

3. Project title_____________________________________________________

4. Short description of project (Abstract):
   _________________________________________________________________
   _________________________________________________________________
   _________________________________________________________________
   _________________________________________________________________
   _________________________________________________________________

5. Initial project size estimate (number of students & major(s))
   _________________________________________________________________

Please send (email preferred) materials to one of these contacts:  
Dennis Derickson – ddericks@calpoly.edu  
Rich Murray – rimurray@calpoly.edu  
David Braun – dbraun@calpoly.edu
We would be delighted having your organization sponsor students for Summer 2020.

If interested, we can assist writing The proposal and gather students. We are targeting 1st and 2nd year students As they do not have as many internship Opportunities compared to 3rd and 4th Year students.

The College of Engineering launched the Summer Undergraduate Research Program with the goal of providing research experience to undergraduate students as they work alongside faculty.

Undergraduate students participating in this program have opportunities to apply classroom knowledge and theories in a research setting, obtain exposure to training in research methods and practices, and work in a team environment as they gain technical skills specific to their research study.

Through collaboration with their faculty members, students gain valuable Learn by Doing research experiences that will support their growth as a student, and set a strong foundation to build on as they pursue their career goals.

The program provides a stipend to the faculty mentor, and the student mentee receives a research grant for an eight-week program. The research projects are faculty/student initiated.

INVITATION TO PARTICIPATE

Our industry partners have an opportunity to propose potential research projects for consideration by the faculty/student team, and provide the funding with a gift of $5,000 per student to support the Summer Undergraduate Research Program.

CONTACT

Tanya Hauck
Assistant Dean, Advancement
College of Engineering
805-756-2163
thauck@calpoly.edu