

BME 180A BME Engineering Design

Fall 2023

Course Description

BME 180A – Design strategies, techniques, tools, and protocols commonly encountered in biomedical engineering; ethics, economic analysis, and FDA product approval. Materials fee.

Instructional Team

Instructors

Prof. Tibor Juhasz, 3113 Natural Sciences II, tjuhasz@hs.uci.edu (<mailto:tjuhasz@hs.uci.edu>)

Prof. Christine King, 3410 Engineering Hall, kingce@uci.edu (<mailto:kingce@uci.edu>)

- Dr. King's Office/ET Fab Lab Hours: Thursdays 10am-2pm, ET 436

Teaching Assistants

Jiaxin (Jason) Luo, luoj34@uci.edu (<mailto:luoj34@uci.edu>)

<mailto:tail3@uci.edu> Sina Javadzadeh No, javadzas@uci.edu (<mailto:javadzas@uci.edu>)

Office Hours: By appointment via E-mail

Lectures

Tuesdays, Thursdays 5:00pm - 6:20pm

Location: Anteater Learning Pavilion room 1600

Connect to Mersive (TVs in Lecture Hall): <https://classrooms.uci.edu/tools-equipment/#wireless-presentation> (<https://classrooms.uci.edu/tools-equipment/#wireless-presentation>)

****Attendance is MANDATORY!**

PLEASE READ AND USE THROUGHOUT THE COURSE:

[Syllabus and Course Information](https://canvas.eee.uci.edu/courses/57479/pages/syllabus-and-course-information)

[\(https://canvas.eee.uci.edu/courses/57479/pages/syllabus-and-course-information\)](https://canvas.eee.uci.edu/courses/57479/pages/syllabus-and-course-information)

[Resources for Assignments and Projects](https://canvas.eee.uci.edu/courses/57479/pages/resources)

[\(https://canvas.eee.uci.edu/courses/57479/pages/resources\)](https://canvas.eee.uci.edu/courses/57479/pages/resources)

[UCI Emergency Resources](https://canvas.eee.uci.edu/courses/57479/pages/emergency-resources-page)






[\(https://canvas.eee.uci.edu/courses/57479/pages/emergency-resources-page\)](https://canvas.eee.uci.edu/courses/57479/pages/emergency-resources-page)








Schedule:





TBA

Week #	Date	Day	Lecture
0	9/28	Th	<u>Introduction, expectation, goals, logistics, design process</u> <u> (https://canvas.eee.uci.edu/courses/57479/files/23858574?wrap=1)</u> ↓ <u> (https://canvas.eee.uci.edu/courses/57479/files/23858574/download?download_frd=1)</u> <u>MedTech Conference Presentation_Joanne Ly</u> <u> (https://canvas.eee.uci.edu/courses/57479/files/23929426?wrap=1)</u> ↓

			<p>(https://canvas.eee.uci.edu/courses/57479/files/23929426/download?download_frd=1)</p> <p>Lecturers: Dr. Christine King, Dr. Tibor Juhasz</p> <p><i>Special Announcement for CHOC AI Hackathon</i></p>
1	10/3	Tu	<p><u>Team Formation Activities</u></p> <p>(https://canvas.eee.uci.edu/courses/57479/files/23964861?wrap=1)_ ↓ https://canvas.eee.uci.edu/courses/57479/files/23964861/download?download_frd=1)</p> <p>Lecturer: Dr. Christine King</p> <p><u>HW 1 Due: Personality Assessment</u></p> <p>(https://canvas.eee.uci.edu/courses/57479/assignments/1218544)</p>
1	10/5	Th	<p>Team Speed Dating</p> <p><i>Location: Antreneur Center, The Banning House, 233 Pereira Drive, UCI: https://antreneur.uci.edu/ (https://antreneur.uci.edu/)</i></p>
2	10/10	Tu	<p><u>Global Unmet Needs and Social Entrepreneurship</u></p> <p>(https://canvas.eee.uci.edu/courses/57479/files/24047246?wrap=1)_ ↓ https://canvas.eee.uci.edu/courses/57479/files/24047246/download?download_frd=1)</p> <p>Lecturer: Dr. Martin Burt, Founder & CEO of Poverty Stoplight</p> <p><u>Paraguay Trip Flyer</u> (https://canvas.eee.uci.edu/courses/57479/files/23855262?wrap=1)_ ↓ (https://canvas.eee.uci.edu/courses/57479/files/23855262/download?download_frd=1)</p>
2	10/12	Th	<p><u>Evaluating Unmet Clinical Needs in Industry</u></p> <p>(https://canvas.eee.uci.edu/courses/57479/files/24039132?wrap=1)_ ↓ https://canvas.eee.uci.edu/courses/57479/files/24039132/download?download_frd=1)</p> <p>Lecturer: Stanton Rowe, NXT Biomedical</p>
3	10/17	Tu	<p><u>Identifying Unmet Clinical Needs in the ICU</u></p> <p>(https://canvas.eee.uci.edu/courses/57479/files/24143594?wrap=1)_ ↓</p>


		<p>(https://canvas.eee.uci.edu/courses/57479/files/24143594/download?download_frd=1)</p> <p>Lecturer: Dr. Yama Akbari (UCI School of Medicine)</p> <p>Engineering World Health Flyer (https://canvas.eee.uci.edu/courses/57479/files/24143648?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24143648/download?download_frd=1)</p>
3	10/19Th	<p><u>Pediatric Unmet Clinical Needs</u> (https://canvas.eee.uci.edu/courses/57479/files/24171497?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24171497/download?download_frd=1)</p> <p>Lecturer: Matt Keller, Innovation Institute</p>
4	10/24Tu	<p><i>Reverse Project Pitch Night</i> Location: ZOOM, Link: https://uci.zoom.us/j/97130849987  (https://uci.zoom.us/j/97130849987)</p>
4	10/26Th	<p>Pitching and Presenting</p> <p>Lecturer: Fabio Gratton, Alchemy Factory</p> <p><u>HW 2 Due: Project Preference List</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218543)</p>
5	10/31Tu	<p><u>Funding a Startup</u> (https://canvas.eee.uci.edu/courses/57479/files/24330716?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24330716/download?download_frd=1)</p> <p>Lecturer: Tibor Juhasz</p> <p><u>Projects Announced</u> (https://canvas.eee.uci.edu/courses/57479/files/24350115?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24350115/download?download_frd=1)</p>
5	11/2Th	<p><u>The Patent Search</u> (https://guides.lib.uci.edu/c.php?g=994457&p=7195904)</p> <p>Lecturers: Sarah Heimann, Julia Gelfand, UCI Library</p>


6	11/7	Tu	<p><u>Evaluating Unmet Needs</u> (https://canvas.eee.uci.edu/courses/57479/files/24406961?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24406961/download?download_frd=1)</p> <p>Sharief Taraman, CEO of Cognoa</p> <p><u>HW 3 Due: Detailed Team Information, Student Participation Form</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218545) (https://canvas.eee.uci.edu/courses/48556/assignments/1009670)</p>
6	11/9	Th	<p><u>Introduction to FDA and Design Controls</u> (https://canvas.eee.uci.edu/courses/57479/files/24430896?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24430896/download?download_frd=1)</p> <p>Lecturer: Carlos Suarez, PhD, VP of Quality and Regulatory Affairs, ViaLase</p> <p>Handouts: <u>Handout 1</u> (https://canvas.eee.uci.edu/courses/57479/files/24382098?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24382098/download?download_frd=1) , <u>Handout 2</u> (https://canvas.eee.uci.edu/courses/57479/files/24382103?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24382103/download?download_frd=1) , <u>Handout 3</u> (https://canvas.eee.uci.edu/courses/57479/files/24382108?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24382108/download?download_frd=1) , <u>21 CFR 820.30</u> (https://canvas.eee.uci.edu/courses/57479/files/24382134?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24382134/download?download_frd=1)</p>
7	11/14	Tu	<p><u>Real World Design Controls</u> (https://canvas.eee.uci.edu/courses/57479/files/24605453?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24605453/download?download_frd=1)</p> <p>Lecturer: Jasen Nava-Massey, President and Principal NM Engineering LLC, Robert LaHaderne, Founder Advantrix LLC</p>

7	11/16	Th	<p><u>How to Write a Proposal</u> (https://canvas.eee.uci.edu/courses/57479/files/24476925?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24476925/download?download_frd=1)</p> <p>Lecturer: Dr. King</p> <p><u>HW 4 Due: Patent and Background Search</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218547)</p>
8	11/21	Tu	<p><u>UCI MEng Program</u> (https://canvas.eee.uci.edu/courses/57479/files/24580974?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24580974/download?download_frd=1)</p> <p>Lecturer: Nikki Spratt, UCI MEng</p> <p><u>How to Prepare a Resume</u> (https://canvas.eee.uci.edu/courses/57479/files/24579567?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24579567/download?download_frd=1)</p> <p>Lecturer: Abraham Kim, Validation Manager at FUJIFILM, Career & Leadership Coach for Engineers</p> <p> (https://canvas.eee.uci.edu/courses/57479/assignments/1218545)</p> <p><u>HW 5 DUE 11/22 at 11:59pm: UROP Proposal**Deadline for Senior Design Projects ONLY (not your research), submit via UROP AND Canvas websites</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218548)</p>
8	11/23	Th	NO LECTURE THANKSGIVING
9	11/28	Tu	<p><u>IP and Patents</u> (https://canvas.eee.uci.edu/courses/57479/files/24653733?wrap=1)  (https://canvas.eee.uci.edu/courses/57479/files/24653733/download?download_frd=1) - Patricia Chan, Ed Hsieh, Applied Innovation (https://canvas.eee.uci.edu/courses/48556/assignments/1009670)</p>
9	11/30	Th	<p><u>Fall Presentations</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218561)</p>

			8 min presentation each team
10	12/5	Tu	<p><u>Fall Presentations</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218561)</p> <p>8 min presentation each team</p>
10	12/7	Th	<p><u>Fall Presentations</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218561)</p> <p>8 min presentation each team</p> <p><u>Due Before Finals Week: Course Evaluation Bonus (sent via email by EEE)</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218534)</p>
Finals	12/11	Mo	<p><u>HW 6 Due 12/11: Design and Project Plan</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218549)</p> <p><u>Team Evaluations</u> (https://canvas.eee.uci.edu/courses/57479/assignments/1218571)</p>

Projects:

Available PROJECT LIST (<https://canvas.eee.uci.edu/courses/57479/files/24211757?wrap=1>)  (https://canvas.eee.uci.edu/courses/57479/files/24211757/download?download_frd=1)

Project Team Matching List (<https://canvas.eee.uci.edu/courses/57479/files/24303674?wrap=1>)  (https://canvas.eee.uci.edu/courses/57479/files/24303674/download?download_frd=1)

<https://canvas.eee.uci.edu/courses/57479/files/23681180?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11082853/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11082853/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11082853/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11446398/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11165991/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11446398/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11463620/download?wrap=1>)

<https://canvas.eee.uci.edu/courses/29380/files/11463620/download?wrap=1>

<https://canvas.eee.uci.edu/courses/29380/files/11463620/download?wrap=1>

Project Roles and Expectations

<https://canvas.eee.uci.edu/courses/57479/files/23681145?wrap=1> ↓

https://canvas.eee.uci.edu/courses/57479/files/23681145/download?download_frd=1

Educational Effectiveness Study Information Sheet

<https://canvas.eee.uci.edu/courses/29380/files/10722349/download?wrap=1> ↓

https://canvas.eee.uci.edu/courses/29380/files/10722349/download?download_frd=1

Purchasing Materials for Projects:

Please use the below template and instructions to submit purchase requests:

Step 1): Fill out the below form for EACH vendor:

Purchase Request Template Form (<https://canvas.eee.uci.edu/courses/57479/files/24059157?wrap=1>) ↓ (https://canvas.eee.uci.edu/courses/57479/files/24059157/download?download_frd=1)

Step 2) Email your Purchase Request Form (separated by vendor) to bmeexpense@uci.edu (<mailto:bmeexpense@uci.edu>) with the following Title/Subject Line:

"Vendor Name_Purchase Request_BME 180_Group #"

Step 3) Keep track of your purchases for your final report. You have \$2,000 as a budget for the entire project. You can use this starting 9/25/2023.

For more information on purchasing and reimbursement, please see:

<http://engineering.uci.edu/faculty-staff/purchasing-reimbursement/purchasing-requests>
(<http://engineering.uci.edu/faculty-staff/purchasing-reimbursement/purchasing-requests>)

Job Opportunities:

[SDSU/UCI Jt. Doctoral Program in Computational Science Prospective](#)

[Student Fair:](#)

The Interdisciplinary Ph.D. Program in Computational Science is aimed at training scientists and engineers who will create advanced computational methods and tools to model and solve challenging problems at the intersections of scientific disciplines. The doctoral program offers coursework and research in a broad range of subjects that develop expertise in Mathematical Modeling and Scientific Computing with applications to Biological Science, Earth Science, Engineering Science, Health, Physical and/or Chemical Science. UCI and SDSU campuses are recognized as Hispanic Serving Institutions offering a welcoming and supportive environment for diverse students. Admitted graduate students are offered a range of financial assistance options while they are pursuing advanced degrees, including Teaching, Graduate, and Research Assistantships and Fellowships. We have 20 positions available. A virtual information session for the program will be held on October 5th, 2023 from 3:00 – 5:00 pm on Gather

(<https://gather.town/> )

([To attend, please register using the link below. Link to the virtual space will be sent only to registered participants 2 days before the event. This will be a great opportunity to meet and interact with current students in the program, potential faculty advisors and program coordinators.](https://urldefense.com/v3/___https://gather.town/___;!!CzAuKJ42GuquVTTmVmPViYEvSg!ILLA7wv6xlgpaoscRZulSgSBB7HFZXPoJueuUErIhz2T7RnLUox7iPMbr-VbHMzubHrms8eS7AATCqy3Cw$)_.)</p></div><div data-bbox=)

Register here - https://docs.google.com/forms/d/e/1FAIpQLSdZwitOrGGWwbrnjerjT-P_7FMqU4yAVuA7ROn5L2acR6LBVw/viewform 

([**For questions about the event:** contact Prof Parag Katira \[pkatira@sdsu.edu\]\(mailto:pkatira@sdsu.edu\)
\(<mailto:pkatira@sdsu.edu>\)](https://urldefense.com/v3/___https://docs.google.com/forms/d/e/1FAIpQLSdZwitOrGGWwbrnjerjT-P_7FMqU4yAVuA7ROn5L2acR6LBVw/viewform___;!!CzAuKJ42GuquVTTmVmPViYEvSg!ILLA7wv6xlgpaoscRZulSgSBB7HFZXPoJueuUErIhz2T7RnLUox7iPMbr-VbHMzubHrms8eS7AAkGfPmHw$)_.)</p></div><div data-bbox=)

Edwards Lifesciences Lunch and Learn Oct 6:

Flyer Here: [Edwards_Lifesciences_-_Lunch_Learn_with_UCI.pdf](#)

(<https://canvas.eee.uci.edu/courses/57479/files/23847386?wrap=1>) 

(https://canvas.eee.uci.edu/courses/57479/files/23847386/download?download_frd=1)

J&J WISTEM2D Networking Event for Women Engineers Nov 3:

Flyer Here: [JandJ WiSTEM2D.png \(https://canvas.eee.uci.edu/courses/57479/files/23959649?wrap=1\)](https://canvas.eee.uci.edu/courses/57479/files/23959649?wrap=1)

Registration Link:

[https://forms.office.com/r/irT8SBUZZs__!!CzAuKJ42GuquVTTmVmPViYEvSg!NRRn-cteGZg7LCROLznvYX67xbNIBXHRFcNnRJ5XK889fT95PwgcUOBVPuB3cw5qODIG9LAE53HzSA\\$](https://forms.office.com/r/irT8SBUZZs__!!CzAuKJ42GuquVTTmVmPViYEvSg!NRRn-cteGZg7LCROLznvYX67xbNIBXHRFcNnRJ5XK889fT95PwgcUOBVPuB3cw5qODIG9LAE53HzSA$)  (https://forms.office.com/r/irT8SBUZZs__!!CzAuKJ42GuquVTTmVmPViYEvSg!NRRn-cteGZg7LCROLznvYX67xbNIBXHRFcNnRJ5XK889fT95PwgcUOBVPuB3cw5qODIG9LAE53HzSA\$)

Toro Neurovascular Internship:

Job Description:

We are looking for a dynamic, high capability intern to join our team and help us drive our next generation of new devices forward. You will directly contribute to key project deliverables within the device development lifecycle, including early-stage prototyping and feasibility, design iterations, specification development, test method development, design verification and validation planning and execution, and transfer to manufacturing. You will be exposed to quality, manufacturing, clinical, and regulatory activities as needed. Being hands-on and proactive is mandatory.


Company Info

We are a tight-knit startup team working to develop a new medical device technology. Our office is located in Irvine CA off of Irvine Center Dr and this position is primarily on-site, though some work may be done remotely. We will begin reviewing applications Nov 6 week. Please include a brief cover letter which details why you will be successful in this role. This is a paid position.

Job description

We are seeking highly motivated individuals who want to make a large impact to join our team. This program will offer you a unique opportunity to dive headfirst into the world of medical devices, where cutting-edge technology meets medical innovation.

As an R&D Engineering Intern, you will receive hands-on experience and mentorship from seasoned engineers who have been a part of multiple prior successful companies. You will collaborate on the design, development, enhancement, and testing of devices specifically designed to help treat patients with vessel occlusions, with the end goal of saving patient lives via our novel stroke thrombectomy platform.

Please apply on [LinkedIn](#) 

https://urldefense.com/v3/https://www.linkedin.com/jobs/view/3740435811__!!OLgoXmg!Skvq7D

[A4BAiLLEoKs54CdliSNaQCiBctuBYcTkJeA4kmlQm8xbsXE_rnGTLQUliTqVTdBBUcfelm-kia\\$\).](#)

Questions? Reach out to [Hyung Posalit](#) ↗

[https://urldefense.com/v3/https://www.linkedin.com/in/hyungp/;!!OLgoXmg!Skvq7DA4BAiLLEoKs54CdliSNaQCiBctuBYcTkJeA4kmlQm8xbsXE_rnGTLQUliTqVTdBBUcfakHtt7e\\$](https://urldefense.com/v3/https://www.linkedin.com/in/hyungp/;!!OLgoXmg!Skvq7DA4BAiLLEoKs54CdliSNaQCiBctuBYcTkJeA4kmlQm8xbsXE_rnGTLQUliTqVTdBBUcfakHtt7e$).

NeoCare Innovations Inc.

[Job Description for Project Engineer \(https://canvas.eee.uci.edu/courses/57479/files/24580490?wrap=1\)](https://canvas.eee.uci.edu/courses/57479/files/24580490?wrap=1) ↓ [↓ \(https://canvas.eee.uci.edu/courses/57479/files/24580490/download?download_frd=1\)](https://canvas.eee.uci.edu/courses/57479/files/24580490/download?download_frd=1)

Funding Opportunities:

ASTM Capstone Project Grants and Scholarships:

As a participant in ANSI's University Outreach Program, we wanted you to be aware of the following academic awards and opportunities available at ASTM International. Please feel free to share with your colleagues.

ASTM Project Grants – Deadline October 31


ASTM International is offering a limited number of \$500 grants to university students to help with senior/capstone design projects. Applications that contain an ASTM International standards component and submitted on or before the deadline will be considered. Completed applications and any questions can be sent directly to Travis Murdock, tmurdock@astm.org (<mailto:tmurdock@astm.org>).

Mary R. Norton Memorial Scholarship for Women – Deadline December 31

ASTM Technical Committee E04 sponsors the Mary R. Norton Memorial Scholarship to encourage women undergraduate seniors or first-year graduate students to pursue the study of Physical Metallurgy or Materials Science with emphasis on the relationship of microstructure to material properties. Full details of the criteria for this award can be found in the attached application form. Completed applications and any questions can be sent directly to E04 Awards and Honors Chair, Janet Gbur, jlg120@case.edu (<mailto:jlg120@case.edu>).

Washington Internship for Students of Engineering (WISE) Program – Deadline February 1

ASTM is one of a handful of sponsoring societies seeking outstanding STEM students to participate in the nine-week WISE program in Washington, D.C. Students selected for this program will discover how government officials make decisions on complex technological issues, while also learning how engineers and scientists can contribute to the legislative process

and regulatory decision-making. More information about the program can be found here: <https://wise-intern.org/>  ([https://urldefense.com/v3/https://wise-intern.org/__;!!CzAuKJ42GuquVTTmVmPViYEvSg!IP03kmu01i5fZjS-mL0nZyKeXVXrv9QCoEoOXnUgnDp64f6c6YOOpBE2VwBUNYI6_NmCAGvXYfdCZaA\\$](https://urldefense.com/v3/https://wise-intern.org/__;!!CzAuKJ42GuquVTTmVmPViYEvSg!IP03kmu01i5fZjS-mL0nZyKeXVXrv9QCoEoOXnUgnDp64f6c6YOOpBE2VwBUNYI6_NmCAGvXYfdCZaA$)).

Additional information about all ASTM academic resources and opportunities can also be found in the attached general program flyer.

NSF GRFP For Graduate School Funding:

Thank you for your interest in the [NSF Graduate Research Fellowship Program \(GRFP\)](https://urldefense.com/v3/https://www.nsfgrfp.org/__;!!CzAuKJ42GuquVTTmVmPViYEvSg!NtNcMyuAK7cLXWB20nLkdoXFgNIpoikhn4WPnFdJcIWPFezZZIwdpdIzGH45gZB2_k58DMD5sVSrwLx$)  ([https://urldefense.com/v3/https://www.nsfgrfp.org/__;!!CzAuKJ42GuquVTTmVmPViYEvSg!NtNcMyuAK7cLXWB20nLkdoXFgNIpoikhn4WPnFdJcIWPFezZZIwdpdIzGH45gZB2_k58DMD5sVSrwLx\\$](https://urldefense.com/v3/https://www.nsfgrfp.org/__;!!CzAuKJ42GuquVTTmVmPViYEvSg!NtNcMyuAK7cLXWB20nLkdoXFgNIpoikhn4WPnFdJcIWPFezZZIwdpdIzGH45gZB2_k58DMD5sVSrwLx$)).

The Samueli School of Engineering is holding an **NSF GRFP *Writing Clinic*** to advise applicants on the preparation of the personal statement, research statement, and other components of the fellowship application. This is an in-person working meeting for applicants in the School of Engineering who can bring drafts of their application and receive feedback from faculty (who have prior experience reviewing applications or advising successful GRFP recipients), and previous GRFP recipients.

When: **Oct. 4th, Wednesday, 12-2pm**

Location: **ISEB 4020**

Lunch will be provided

Please ***RSVP** 

[https://urldefense.com/v3/https://docs.google.com/forms/d/e/1FAIpQLSdbIN77mDigi-ZIBVe6464osw4W7oWerXCM6TW4UkvfDQidpg/viewform?usp=sf_link__;!!CzAuKJ42GuquVTTmVmPViYEvSg!NtNcMyuAK7cLXWB20nLkdoXFgNIpoikhn4WPnFdJcIWPFezZZIwdpdIzGH45gZB2_k58DMD5m3KQbhD\\$](https://urldefense.com/v3/https://docs.google.com/forms/d/e/1FAIpQLSdbIN77mDigi-ZIBVe6464osw4W7oWerXCM6TW4UkvfDQidpg/viewform?usp=sf_link__;!!CzAuKJ42GuquVTTmVmPViYEvSg!NtNcMyuAK7cLXWB20nLkdoXFgNIpoikhn4WPnFdJcIWPFezZZIwdpdIzGH45gZB2_k58DMD5m3KQbhD$))* so that we can plan for the lunch headcount accordingly.

Upcoming Workshops & Fellowships:

ULP Life Science Young Leaders Fellowship:

<https://www.universitylabpartners.org/life-science-young-leaders-fellowship> 

<https://www.universitylabpartners.org/life-science-young-leaders-fellowship>

This 6-month career exploration program will provide fellows with a deep understanding of the different career opportunities in the thriving life science industry. Fellows will participate in a variety of events including professional development training with industry professionals, networking events, industry tours, and 1:1 meetings with carefully matched mentors.

VentureWell E-Team Proposal Workshop Dec 5:

VentureWell's [E-Team Program](#) 

[https://urldefense.com/v3/https://go.venturewell.org/e/388732/e-team-program-/2c3j725/1557600346/h/j9mFXBpLsNvFmFIKP0sYJg9znoKiUu1sT9aleKuiCJw_!!CzAuKJ42GuquVTTmVmPViYEvSg!MGUFJ1U7f2Fr8GP_gmsbBnQVRNRbbFIR77mBenvh--U9zC_lpdskjyltGcVsODyW2ObUQeDdyrVJM_9k\\$](https://urldefense.com/v3/https://go.venturewell.org/e/388732/e-team-program-/2c3j725/1557600346/h/j9mFXBpLsNvFmFIKP0sYJg9znoKiUu1sT9aleKuiCJw_!!CzAuKJ42GuquVTTmVmPViYEvSg!MGUFJ1U7f2Fr8GP_gmsbBnQVRNRbbFIR77mBenvh--U9zC_lpdskjyltGcVsODyW2ObUQeDdyrVJM_9k$) offers an enriching combination of grant funding, hands-on learning experience, and mentorship that transform student inventors into thriving entrepreneurs. **Teams can receive up to \$25,000 to advance their innovation.** Applications for our Spring 2024 cohort are now open!

How can you get involved?

Students: Attend one of our [Info Sessions on December 5 or January 3](#) 

[https://urldefense.com/v3/https://go.venturewell.org/e/388732/etteam-info-session-jan3/2c3j72c/1557600346/h/j9mFXBpLsNvFmFIKP0sYJg9znoKiUu1sT9aleKuiCJw_!!CzAuKJ42GuquVTTmVmPViYEvSg!MGUFJ1U7f2Fr8GP_gmsbBnQVRNRbbFIR77mBenvh--U9zC_lpdskjyltGcVsODyW2ObUQeDdyiHDmSQu\\$](https://urldefense.com/v3/https://go.venturewell.org/e/388732/etteam-info-session-jan3/2c3j72c/1557600346/h/j9mFXBpLsNvFmFIKP0sYJg9znoKiUu1sT9aleKuiCJw_!!CzAuKJ42GuquVTTmVmPViYEvSg!MGUFJ1U7f2Fr8GP_gmsbBnQVRNRbbFIR77mBenvh--U9zC_lpdskjyltGcVsODyW2ObUQeDdyiHDmSQu$) to learn more!

Career in Patent Law Workshop:

Linda Narhi and I are excited to share that the Bioengineering Institute of California's Industry Liaison Committee has partnered with Patty Le-Narula and Rabi Narula from UC Irvine Anteaters in Law and the UCI Engineering Alumni Society to host a special virtual evening panel discussion with bioengineering students on Tuesday, November 14th from 6:00 – 7:30 p.m. PT.

The first half of the discussion will highlight important legal topics every engineers should know and the second half will focus on alternative career paths for bioengineers interested in careers in law. Our esteemed panel includes several lawyers with an engineering background who found their passion for law after technical training. We hope that you will join us here:

<https://ucla.zoom.us/j/92342918182>  <https://ucla.zoom.us/j/92342918182>

MedTech Conference Oct 9-11, 2023 Anaheim Convention Center:

MedTech Conference Presentation_Joanne Ly-1.pdf

<https://canvas.eee.uci.edu/courses/57479/files/23929435?wrap=1> ↓

https://canvas.eee.uci.edu/courses/57479/files/23929435/download?download_frd=1

UCI I-CORPS **** Highly Recommend!**

<https://innovation.uci.edu/i-corps/> (<https://innovation.uci.edu/i-corps/>)

Have a great idea?

NSF I-Corps is the perfect opportunity to focus on market research and quickly validate your idea. NSF I-Corps is a four week, immersive boot camp that guides researchers through the market research process to help them product-market fit. This program meets once a week (virtually unless circumstances change) and is designed for researchers doing work in the STEM (Science, Technology, Engineering, and Mathematics) fields.


I-Corps is designed to help you:

- Kick start your innovation with up to \$2000 in funding for customer discovery
- Successfully translate university research to technologies in the market
- Obtain skills and training essential for professional development
- Explore alternative career paths (entrepreneurship, business, marketing)

Cost: FREE!



For more information and dates: <http://innovation.uci.edu/programs/i-corps/>
(<http://innovation.uci.edu/programs/i-corps/>) (<mailto:doug.crawford@uci.edu>)

Y-Combinator Startup School:

Y Combinator is launching Startup School for Future Founders, a course specifically for founders who are interested in starting a company in the future! You can [register](https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytk-j/)  (<https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytk-j/>) for the new course today.

This course will start November 9th and run for 6 weeks. We designed it for you: students, engineers, creatives, and anyone thinking about founding a startup at some point, but not actively working on one right now.

The course will cover important topics for this early stage, such as generating good startup ideas, finding/vetting a co-founder, and validating your idea with potential customers. Each week, you'll be able to watch lectures from YC partners and other industry experts, and then complete high-impact exercises to put those learnings into practice.

We hope you'll join us by [signing up](https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytdk-t/)  [\(https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytdk-t/\)](https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytdk-t/) today and [spreading the word](https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytdk-i/)  [\(https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytdk-i/\)](https://ycombinator.cmail20.com/t/t-l-xtdhht-sirjytdk-i/) with anyone else who might be interested.

Competitions:

ANSI Competitions (Standards):

https://www.ansi.org/news_publications/news_story?menuid=7&articleid=713eb799-ab8b-403b-9d36-2b53dc98109c&utm_campaign=OO_EML_20September-21-2020-whatsnew_BG&utm_medium=email&utm_source=whatsnew 
https://www.ansi.org/news_publications/news_story?menuid=7&articleid=713eb799-ab8b-403b-9d36-2b53dc98109c&utm_campaign=OO_EML_20September-21-2020-whatsnew_BG&utm_medium=email&utm_source=whatsnew

VentureWell Competitions and Resources

[ASPIRE](https://venturewell.org/aspire/) 

[BMEidea](https://venturewell.org/bmeidea/) 

[Cleantech University Prize](https://venturewell.org/cleantech-university-prize-cleantech/) 

[DEBUT](https://venturewell.org/debut/) 

[E-Teams Grants](https://venturewell.org/student-grants/) 

[Inventing Green Toolkits](https://venturewell.org/inventing-green-toolkits/) 

[NSF I-Corps](https://venturewell.org/i-corps/) 

Other Competitions and Resources

[ACC InVenture Prize](http://accinventure.gatech.edu/) 

[Baylor New Venture Competition](https://www.baylor.edu/business/newventurecompetition/) 

[Collegiate Inventors Competition](http://www.invent.org/challenge/) 

[James Dyson Award](https://www.jamesdysonaward.org/)  **Resource: [James Dyson](#)

[Application Workshop Video](https://canvas.eee.uci.edu/courses/57479/assignments/1218542/) [\(https://canvas.eee.uci.edu/courses/57479/assignments/1218542\)](https://canvas.eee.uci.edu/courses/57479/assignments/1218542/)

[MIT Clean Energy Prize](http://cep.mit.edu/) 

[MIT Water Innovation Prize](http://www.mitwaterinnovation.org/) 

[Rabobank-MIT Food and Agribusiness Innovation Prize](http://food-) 

ag.squarespace.com/innovation-prize/)

[Rice Business Plan Competition](https://rbpc.rice.edu/)  (https://rbpc.rice.edu/)

[Westly Prize](https://westly.org/westly-prize/)  (https://westly.org/westly-prize/)

[Pitch Launch Grow](https://www.universitylabpartners.org/our-events/pitch-launch-grow-2021)  (https://www.universitylabpartners.org/our-events/pitch-launch-grow-2021).

<https://ucinnovationchallenge.org/>  (https://ucinnovationchallenge.org/).

Join Us on Social Media!

BioENGINE LinkedIn: <https://www.linkedin.com/groups/13533228/> 

(<https://www.linkedin.com/groups/13533228/>)

BioENGINE Instagram: @bioengine

BME Discord Channel: <https://discord.gg/ZM4SyngE4R>  (https://discord.gg/ZM4SyngE4R).