

# BME 180B BME Engineering Design

## Winter 2025

### Course Descriptions

BME 180B – Design strategies, techniques, tools, and protocols commonly encountered in biomedical engineering; clinical experience at the UCI Medical Center and Beckman Laser Institute; industrial design experience in group projects with local biomedical companies; ethics, economic analysis, and FDA product approval. In-progress grading. Prerequisite: BME180A.

### Instructional Team

#### Instructors

Prof. Jered Haun, 3107 Natural Sciences II, [jered.haun@uci.edu](mailto:jered.haun@uci.edu) (<mailto:jered.haun@uci.edu>).

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

- Dr. Haun's Office Hours: Mondays 3:00-4:00 PM, NSII 3107, or by appointment
- Dr. King's Office/ET Fab Lab Hours: Tuesdays/Thursdays 12-5pm, ET 436, or by appointment

#### Teaching Assistants

Samir Malhotra, [smalhot2@uci.edu](mailto:smalhot2@uci.edu) (<mailto:smalhot2@uci.edu>).

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

**Office Hours:** By appointment via E-mail

#### Fabrication Lab Hours

Fabrication Lab Room Hours and Location:

Undergraduate Supervisor: Christopher Tan, 3D Print Request Form: <https://bit.ly/BMEFABLAB> ↗ (<https://bit.ly/BMEFABLAB>).

Location: Engineering Tower (ET) Room 436

Open Hours:

Tuesdays 12-5pm

Thursdays 12-5pm

Testing Lab + Meeting Room Hours and Location:

Multipurpose Science and Technology Building (MSTB) room 214

Open Hours: By Appointment, contact Dr. Christine King [kingce@uci.edu](mailto:kingce@uci.edu) (<mailto:kingce@uci.edu>) to schedule

### 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!**

## Prerequisites

BME 180A/B/C must be taken in the same academic year. Senior standing only.

**Required Text:** None

## Reference Texts

Paul Yock, Stefanos Zenios, and Josh Makower, eds., *Biodesign: The Process of Innovating Medical Technologies, 2nd Ed.*, Cambridge University Press, 2015.

Clive L Dym, Patrick Little, and Elizabeth Orwin, *Engineering Design: A Project-Based Introduction, 4th Ed.*, Wiley, 2014.

## Grading Policy

Attendance:	10%
Homework:	50% (HW1: 7%, HW2: 8%, HW3: 15%, HW4: 10%, HW5: 10%)
Presentation:	20% (15% overall, 5% individual)
Poster:	10%
Peer evaluation:	5%
Mentor evaluation:	5%
Course Survey Bonus:	1%
Team Lead Bonus:	3%

## Course Learning Outcomes

**BME 180B** – Upon completing the course, students will be able to:

1. Demonstrate leadership and teamwork skills in a project team environment.
2. List and define the various steps in bringing a biomedical product from concept to market.
3. Identify the realistic constraints of the team project.
4. Articulate the impacts of the project in a global, economic, environmental and societal context.
5. Design and conduct experiments to verify team projects requirements.
6. Use knowledge in mathematics, statistics, biological sciences, physical sciences, and engineering to solve the problems at the interface of engineering and biology whenever required.
7. Use the appropriate computer tools to design, model, simulate, and/or operate, the team projects.
8. Demonstrate oral communication skills in presenting team projects.

<https://canvas.eee.uci.edu/courses/11781/files?preview=4350718>

## Overall Program Schedule

Quarter	Activities Performed	Track Expectations
Fall	focus on team formation, project definition and planning, addressing clinical need, FDA and technical documentation, initial experimentation on possible design solutions, decision on chosen design	<i>Industry Track:</i> develop research components of the project, UROP proposal <i>Entrepreneurial Track:</i> develop market study, first-draft business plan
Winter	<b>focus on the implementation of the chosen solution and redesign to a more detailed design with considerations of standards. Mid-course adjustment may be needed, depending on the findings</b>	<i>Industry Track:</i> continue research tasks as part of the project development <i>Entrepreneurial Track:</i> continue business plan as part of the project development

Spring	pursue final testing, validation, and revision of the design solution followed by complete documentation	<i>Industry Track:</i> present at UROP engineering design competition <i>Entrepreneurial Track:</i> present at NVC business plan competition
--------	--	---

## PLEASE READ AND USE THROUGHOUT THE COURSE:

[Syllabus and Course Information \(https://canvas.eee.uci.edu/courses/69249/pages/syllabus\)](https://canvas.eee.uci.edu/courses/69249/pages/syllabus)

[Resources for Assignments and Projects \(https://canvas.eee.uci.edu/courses/69249/pages/resources\)](https://canvas.eee.uci.edu/courses/69249/pages/resources)

[UCI Emergency Resources \(https://canvas.eee.uci.edu/courses/69249/pages/uci-emergency-resources\)](https://canvas.eee.uci.edu/courses/69249/pages/uci-emergency-resources)

## Course Schedule

Week #	Date	Day	Lecture
1	1/7	Tue	<b>Introduction to the Quarter: Deliverables and Expectations</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29460228?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29460228?wrap=1</a> ). <a href="#">download_frd=1</a> Lecturers: Dr. Christine King, Dr. Jered Haun
1	1/9	Thu	<b>Crash Course in Prototyping</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29475448?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29475448?wrap=1</a> ). <a href="#">download</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29475448?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29475448?wrap=1</a> ) Lecturer: Christine King
2	1/14	Tue	<b>From Prototype to Startup</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29545693?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29545693?wrap=1</a> ). <a href="#">download</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29545693?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29545693?wrap=1</a> ) Lecturer: Jered Haun Special Announcement: Master's of Engineering Program, Nikki Spratt <b>HW 1: SWOT Analysis and Team Science</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500723">https://canvas.eee.uci.edu/courses/69249/assignments/1500723</a> )
2	1/16	Thu	<b>Product Development Cycle in Industry</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29545842?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29545842?wrap=1</a> ). <a href="#">download</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29545842?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29545842?wrap=1</a> ) Lecturer: Soroush Zarandi, Senior Manager, Illumina
3	1/21	Tue	<b>FMEA and Quality Control</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29621010?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29621010?wrap=1</a> ). <a href="#">download</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29621010?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29621010?wrap=1</a> ) <b>FMEA Example-1.xlsx</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29599285?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29599285?wrap=1</a> ). <a href="#">download</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29599285?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29599285?wrap=1</a> ) <b>Lecture Recording Link</b> <a href="https://zoom.us/rec/play/XonF0TQQTzXUsd3bwRcS5n1ur9J1vzGo51_8jkra3lcCdaYVNP6-2fR0mq5X3kdcanPlayFromShare=true&amp;from=share_recording_detail&amp;continueMode=true&amp;iet=HazFPP6GQearORN4YTwIY7jUXvnCIJRn0chiORpqxH.2caWdv_Z6E4B971ENbC2lrPf2FpTMml_4XowWyet85zrbllld0sGVDLXAelO8_GaszFJDRjveiqBABoB6ao0BeTllazZ_YKm3QnPSoviJBmLcIplay&amp;originRequestUrl=https%3A%2F%2Fzoom.us%2Frec%2Fshare%2FQVE5M4PSdhnpdRZbDB-pOpUGrTkcPxnUfdehSViitX9j1FDKUsWzyn5MOOheOaXd.wFF7hTev2SQkoOkh%3Fiet%3DHazFPP6GQearORN4YTwIY7jUXvnCIJRn0chiORpqxH.2caWdv_Z6E4B971ENbC2lrPf2FpTMml_4XowWyet85zrbllld0sGVDLXAelO8_GaszFJDRjveiqBABoB6ao0BeTllazZ_YKm3QnPSoviJBmLcI">https://zoom.us/rec/play/XonF0TQQTzXUsd3bwRcS5n1ur9J1vzGo51_8jkra3lcCdaYVNP6-2fR0mq5X3kdcanPlayFromShare=true&amp;from=share_recording_detail&amp;continueMode=true&amp;iet=HazFPP6GQearORN4YTwIY7jUXvnCIJRn0chiORpqxH.2caWdv_Z6E4B971ENbC2lrPf2FpTMml_4XowWyet85zrbllld0sGVDLXAelO8_GaszFJDRjveiqBABoB6ao0BeTllazZ_YKm3QnPSoviJBmLcIplay&amp;originRequestUrl=https%3A%2F%2Fzoom.us%2Frec%2Fshare%2FQVE5M4PSdhnpdRZbDB-pOpUGrTkcPxnUfdehSViitX9j1FDKUsWzyn5MOOheOaXd.wFF7hTev2SQkoOkh%3Fiet%3DHazFPP6GQearORN4YTwIY7jUXvnCIJRn0chiORpqxH.2caWdv_Z6E4B971ENbC2lrPf2FpTMml_4XowWyet85zrbllld0sGVDLXAelO8_GaszFJDRjveiqBABoB6ao0BeTllazZ_YKm3QnPSoviJBmLcI</a> Lecturer: Chris Hoo, Industrialization Project Engineer, GKN
3	1/23	Thu	Customer Interviews and the Business Model Canvas Lecturer: David Ochi, UCI School of Business

4	1/28	Tue	Team Check Ins (5-6 groups, 15 min per group) <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b">Sign Up Sheet</a> ↗ ( <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b">https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b</a> ): <u>team lead must sign up!</u>
4	1/30	Thu	Team Check Ins (5-6 groups, 15 min per group) <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b">Sign Up Sheet</a> ↗ ( <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b">https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b</a> )
5	2/4	Tue	<b>Strategy Up Meetings</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29787392?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29787392?wrap=1</a> ). ↓ ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1</a> ). Lecturer: Nancy Singer, President, Compliance Alliance LLC. <a href="https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1">Handout For Lecture</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1</a> ). ↓ ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29594935?wrap=1</a> )
5	2/6	Thu	Team Check Ins (5-6 groups, 15 min per group) <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b">Sign Up Sheet</a> ↗ ( <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b">https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159396-bme180b</a> )
6	2/11	Tue	Senior Feedback Session Lecturer: Dr. Daryl Preece, Jered Haun
6	2/13	Thu	<b>Pitching to Investors and Competitions</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29899083?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29899083?wrap=1</a> ). ↓ ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29899083?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29899083?wrap=1</a> ) Lecturer: Greg Buchert, Chief Medical Officer, Makani Science <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500724">HW 2: Customer Interviews, Initial Fabrication Design Review</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500724">https://canvas.eee.uci.edu/courses/69249/assignments/1500724</a> )
7	2/18	Tue	Team Check Ins Round 2 (5-6 groups, 15 min per group) <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b">Sign Up Sheet</a> ↗ ( <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b">https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b</a> )
7	2/20	Thu	Team Check Ins Round 2 (5-6 groups, 15 min per group) <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b">Sign Up Sheet</a> ↗ ( <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b">https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b</a> )
8	2/25	Tue	Team Check Ins Round 2 (5-6 groups, 15 min per group) <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b">Sign Up Sheet</a> ↗ ( <a href="https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b">https://www.signupgenius.com/go/805044FAAAD2BA5FA7-54159523-bme180b</a> )
8	2/27	Thu	<b>Industry Night</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29522935?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29522935?wrap=1</a> ). ↓ ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29522935?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29522935?wrap=1</a> ) Location: Division of Continuing Education (DCE) <b>Due 2/26 AT 2PM: <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500758">Winter Design Review Poster</a></b> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500758">https://canvas.eee.uci.edu/courses/69249/assignments/1500758</a> ) via Canvas Ass
9	3/4	Tue	<b>How the Senior Design Projects Impacted my Future Panel Discussion</b> ( <a href="https://canvas.eee.uci.edu/courses/69249/files/3016776">https://canvas.eee.uci.edu/courses/69249/files/3016776</a> ) ( <a href="https://canvas.eee.uci.edu/courses/69249/files/3016776/download?download_frd=1">https://canvas.eee.uci.edu/courses/69249/files/3016776/download?download_frd=1</a> ) Lecturers: UCI Alumni, To Be Announced ( <a href="https://canvas.eee.uci.edu/courses/69249/files/29198159?wrap=1">https://canvas.eee.uci.edu/courses/69249/files/29198159?wrap=1</a> ) <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500725">HW 3: Qualification Test Procedure, NVC Concept Paper</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500725">https://canvas.eee.uci.edu/courses/69249/assignments/1500725</a> ) <b>DUE 1</b>
9	3/6	Thu	<a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500721">Project Presentations</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500721">https://canvas.eee.uci.edu/courses/69249/assignments/1500721</a> ) (8 min presentation each team, same order)
10	3/11	Tue	<a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500721">Project Presentations</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500721">https://canvas.eee.uci.edu/courses/69249/assignments/1500721</a> ) (8 min presentation each team, same order)
10	3/13	Thu	<a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500721">Project Presentations</a> ( <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500721">https://canvas.eee.uci.edu/courses/69249/assignments/1500721</a> ) (8 min presentation each team, same order)

10	3/14	Fri	1pm-4pm: Winter Design Review – Poster Exhibition Location: Student Center: Woods Cove A and B, C, Doheny Beach ABCD, Emerald Bay ABCDE, Moss Cove A and B, and Pacific I <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500726">HW 4: New Venture Competition Pitch Deck, First Generation Prototype (https://canvas.eee.uci.edu/courses/69249/assignments/1500726)</a>
Final	3/17	Mon	<a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500727">HW 5: Senior Survey (https://canvas.eee.uci.edu/courses/69249/assignments/1500727)</a> <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500751">Team Peer Evaluations (https://canvas.eee.uci.edu/courses/69249/assignments/1500751)</a> <a href="https://canvas.eee.uci.edu/courses/69249/assignments/1500752">Team Peer Evaluations (https://canvas.eee.uci.edu/courses/69249/assignments/1500752)</a>

## Upcoming Workshops:

## Job Opportunities:

### Zeiss Summer Internship:

Please see below for an exciting paid summer internship opportunity with ZEISS.

#### Program Overview:

- **Duration:** June 16th – August 1st
- **Eligibility:** STEM majors in their last or second-to-last year of study
- **Locations:** San Francisco Bay, NYC, Chicago, and Houston Metro areas
- **Details:** Interns will receive hands-on training in electron, light, and x-ray microscopy repair and troubleshooting techniques, followed by shadowing Field Service Engineers in the field.

#### How to Apply:

Applications are available on Handshake. Students should apply directly for the location(s) they are interested in:

- **San Francisco** [↗ \(https://mail.google.com/mail/u/1/#m\\_2841859560652077984\)](https://mail.google.com/mail/u/1/#m_2841859560652077984)
- **NYC** [↗ \(https://mail.google.com/mail/u/1/#m\\_2841859560652077984\)](https://mail.google.com/mail/u/1/#m_2841859560652077984)
- **Chicago** [↗ \(https://mail.google.com/mail/u/1/#m\\_2841859560652077984\)](https://mail.google.com/mail/u/1/#m_2841859560652077984)
- **Houston** [↗ \(https://mail.google.com/mail/u/1/#m\\_2841859560652077984\)](https://mail.google.com/mail/u/1/#m_2841859560652077984)

#### Hear from Past Interns:

Students can learn more about the internship experience and its benefits by exploring testimonials from previous participants.

If you have any questions, please don't hesitate to reach out to Justin Jacobs, the Internship Coordinator, at [justin.jacobs@zeiss.com](mailto:justin.jacobs@zeiss.com) (<mailto:justin.jacobs@zeiss.com>).

Attached are flyers with additional details.

[Zeiss Summer Internship Flyers.zip \(https://canvas.eee.uci.edu/courses/69249/files/29509400?wrap=1\)](https://canvas.eee.uci.edu/courses/69249/files/29509400?wrap=1) ↓  
([https://canvas.eee.uci.edu/courses/69249/files/29509400/download?download\\_frd=1](https://canvas.eee.uci.edu/courses/69249/files/29509400/download?download_frd=1))

## 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) ↗  
([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/) ↗ (<https://venturewell.org/aspire/>)

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

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

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

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

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

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

#### **Other Competitions and Resources**

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

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

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

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

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

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

[Rabobank-MIT Food and Agribusiness Innovation Prize](http://food-ag.squarespace.com/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/y37NkV5f>  (https://discord.gg/9XNXejH)