Sustainability Design Challenge 2023

UNIVERSITY OF SAN FRANCISCO

Environmental Engineering & Science Club

UPCOMING EVENTS

October 11, 4:30-7:30pm
McLaren 252
Picture a Scientist
Film Screening

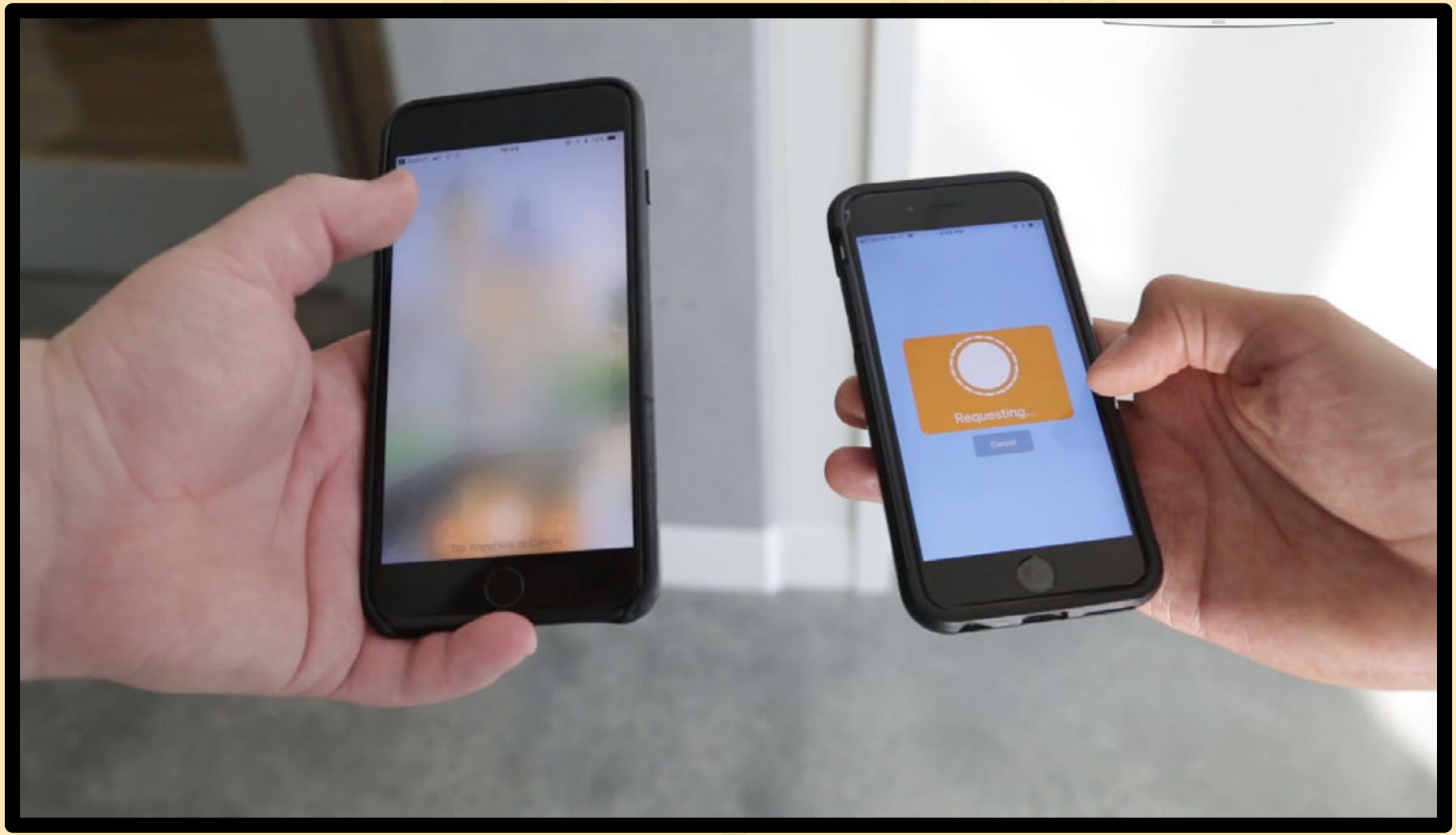
November 2, 11:45-12:40 p.m.
Getty Study
Federal Jobs/
EPA Career Event

November 11 (tentative)
Monterey Bay Aquarium field trip & behind the scenes tour

November 13, 7-8 p.m.
USAJOBS demo & federal resume workshop

@eesclubusfca

What is Sustainability Design Challenge?



Sustainability: ensuring enough for all forever

...by affecting:

- Awareness
- Behavior change
- Policies & procedures
- Product design

...in these areas of focus:

- Energy conservation & efficiency
- Water conservation & efficiency
- Waste reduction & diversion
- Transportation
- Other (e.g., consumer choice, food consumption, personal investing)

What is a design challenge?

You identify a problem, and you work in a team to find a solution.

What is the goal?

To propose a solution that will help improve and promote environmental sustainability at USF. Your solution should be in the form of a concept proposal and development plan that addresses one of the priority areas identified.

What kind of solution?

The format is up to your team. Maybe it's a physical object, a smartphone app, a process modification, or an education initiative. There is no limit to the form your solution can take!

Who are on a team?

USF students from any major or year. Teams will be multidisciplinary, representing at least three of the following skill sets: communication, research, making, and graphics. Teams should have 3-5 members.

How are proposals judged?

Proposals will be judged on their feasibility, impact, and creativity by a panel of expert judges with backgrounds in sustainability, design, and social impact.

Are there prizes?

Yes! Each member of the top three teams will receive a gift card redeemable at the USF Bookstore and other B&N locations. Also, the winning team will meet with President Fr. Paul Fitzgerald to pitch their idea for possible implementation on campus. You can help make a lasting difference at USF!

Judging Criteria

Impact (4 points) – Would the proposed solution affect behaviors and have real environmental, economic, and/or social impact at USF and beyond? Can it inspire people to care?

Feasibility (4 points) – Is your proposed solution realistic in scope and scale? Does the background research and development proposal make sense? Is the solution itself sustainable? Cost?

Creativity (2 points) – Is your proposed solution a fresh take on the problem? Does it tackle a problem in a creative and engaging way?

Teams

Teams must have 3-5 members. Interdisciplinary team composition is preferred. Teams with members representing at least three of the following skill sets will have priority:

COMMUNICATION (blue): are you expressive with words? Are you good at explaining ideas?

GRAPHICS (yellow): are you good at creating compelling graphics and other visual elements?

MAKING (red): do you know how to code? Or prototype with simple materials?

RESEARCH (green): are you good at finding background information to support your ideas?

Calendar of Events & Deadlines

Kickoff Event (today, September 27)

- Meet potential team members, share ideas, form teams

Team applications due by Friday, September 29 by 11:59 PM

- Register at tinyurl.com/USFSDC2023, or scan the QR code

Team proposals due by Tuesday, October 3 by 11:59 PM

- Submit a general statement of your team's proposal. Proposal form link will be sent to registered teams.
- Teams that submitted accepted proposals will be notified on Thursday, October 5.

Challenge Day – Main Event: Saturday, October 7

Calendar of Events & Deadlines

Accepted teams will submit their PROPOSAL (Google form due Tuesday, October 3 by 11:59 PM), containing:

- Team members – member names, emails, majors, skill sets, and main contact person
- Summary – executive summary of your idea, 1-2 paragraphs describing your idea for improving campus sustainability (i.e., statement of need, description of idea, desired outcomes)
- Resources - list of references and resources, if any, used to construct your idea

Sign up your team by Friday, September 29!
tinyurl.com/USFSDC2023

Challenge Day - Main Event

Saturday, October 7, Innovation Hive

9:00 AM	Breakfast & morning workshops: • Make It or Break It • Secrets of Successful Apps
10:00 AM	Welcome & overview • Ground rules & judging criteria • Deliverables & presentation guidelines
11:30 AM	Working lunch & feedback from mentors
4:30 PM	Final team presentations to judges. All teams must be present!
6:00 PM	Dinner & judges deliberation
7:00 PM	Announcement of winning teams

Resources

Richard Hsu

Sustainability Coordinator
rhsu4@usfca.edu

Sean Olson

Director of Innovation Hive
solson3@usfca.edu

Penny Scott

Reference Librarian,
Gleeson Library
plscott@usfca.edu

...and others such as faculty/alumni mentors in design, entrepreneurship, environmental science, psychology, public health, etc

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Strengthen your sustainability design pitch with RESEARCH!

Sustainability Design Challenge
Library Research Guide:
library.usfca.edu/sdchallenge

To get help from the library on your project, visit: libanswers.usfca.edu

Good luck to all of this year's teams!

Sign up your team by Friday, September 29!
tinyurl.com/USFSDC2023

User-centered Design

Sign up your team by Friday, September 29!
tinyurl.com/USFSDC2023

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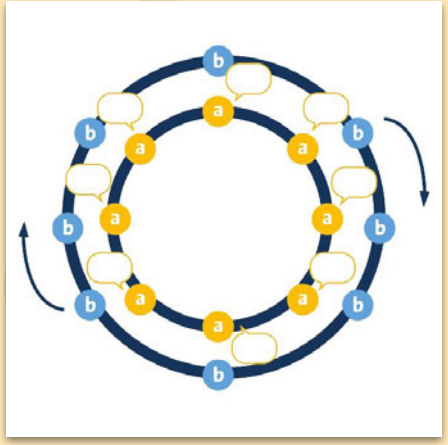
And now to meet each other and start forming teams!



Step 1. Form two concentric circles facing each other

Step 2. Introduce yourself and share your ideas (inside circle first, then outside circle)

Step 3. Rotate your circle when instructed to do so

Step 4. Repeat Step 2!

At the end of the activity when you begin to form teams, look for skill sets (dots) that your team lacks. Exchange contact information with your team members!

Sign up your team by Friday, September 29!
tinyurl.com/USFSDC2023

Sustainability Design Challenge 2023

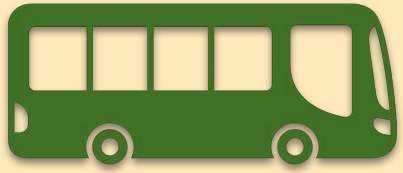
is brought to you by the 2023 Planning Committee (and supporting units)

Amalia Kokkinaki (Environmental Science)
Bea Johnson-Drysdale (Engineering)
Dave Wolber (Computer Science)
Genna Smith (Engineering)
Lou Lucaccini (Entrepreneurship, SOM)
Malia Boksanski (EESC)
Richard Hsu (Office of Sustainability)
Sean Olson (Innovation Hive)

...with special thanks to our event sponsors: President Fr. Paul Fitzgerald, Engineering, School of Management, College of Arts & Sciences, Art+Architecture, CIO/ETS, Computer Science, Innovation Hive, Office of Sustainability, Thatcher Gallery, Environmental Management, Environmental Science, Gleeson Library, School of Nursing & Health Professions, Environmental Studies, EESC, and the many students, staff, and faculty who helped promote this event!

Good Luck!

Remember to exchange contact information within your team!



Reminders:

Submit team applications by
Friday, September 29

Submit team proposals by
Tuesday, October 3

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