

COLLEGE OF ENGINEERING

2023  
ENGINEERING  
EXPO



Oregon State  
University

THANK YOU  
TO OUR EVENT SPONSOR



# 2023 ENGINEERING EXPO

FRIDAY, JUNE 9

11 A.M. TO 4 P.M.

KELLEY ENGINEERING CENTER

2500 MONROE AVENUE

# WELCOME TO THE ENGINEERING EXPO!

There are more than 200 student design projects on display today. The entire Expo is open to the public from 11 a.m. to 4 p.m. You can browse projects and visit with students in any order you wish.

**IF YOU NEED ASSISTANCE:** Stop by any of the info booths listed on the map.

**PLEASE NOTE:** Each project has an Expo Project ID. Due to the need for certain projects to be located in specific areas, projects displays are not arranged in the exact order of their Project IDs. To find a specific project or a specific student, use the Index, and then locate that project on the map. Projects are generally grouped together by discipline, although some multidisciplinary projects are grouped together outside their discipline area. MAP KEY: CP - Community Plaza; CW - Campus Way; KE - Kelley Engineering Center; MP - Memorial Place

## SCHEDULE:

- 11 a.m. to 4 p.m. – Expo open to the public; browse projects in any order
- 4:15 to 4:45 p.m. – Industry choice award presentations, Student Experience Center Plaza (in between Memorial Union and Student Experience Center)
- 5 to 5:30 p.m. – Expo reception (open to student presenters, their families, industry representatives, leadership, faculty, and alumni), Student Experience Center Plaza (in between Memorial Union and Student Experience Center)

**RECEPTION DIRECTIONS:** If you are registered for the 5 p.m. reception, directions are located at: [beav.es/Tkv](http://beav.es/Tkv).

**HIGH SCHOOL AND MIDDLE SCHOOL VISITS:** If you are part of a scheduled high school or middle class visit, please check in at the HS/MS Visitors Booth located near the intersection of Orchard Way and 26th street (see map).

## SEARCHABLE ONLINE EXPO PROGRAM:

[beav.es/Tkv](http://beav.es/Tkv)



## AWARDS

Thank you to the following industry partners, who are reviewing projects and presenting awards at 4:15 p.m. at the Student Experience Center Plaza

- Pacific Power Presenting Sponsor Award
- Boeing Engineering Excellence Award
- Hoffman Construction Award
- HP Innovation Award
- Jacobs Multidisciplinary Collaboration Award
- LIGHT Award (presented by Genentech)
- NuScale Humanitarian Project Award
- Pioneering Concept Award (presented by Daimler Trucks North America)
- Portland General Electric Environmental Impact Award

## PROJECT SPONSORS

Thank you to the following organizations for sponsoring individual student design projects:

- All The Farms
- Analog Devices
- Aris Hydraulics
- Borntreger Tree Jacks
- Celilo Cycles
- CMM Energy
- Department of the Interior
- E9 Hydrogen
- Garmin
- Hewlett Packard Inc. (HP)
- HP Incorporation
- HydroStar
- Hyster-Yale Group
- Innovative Composite Engineering
- Intel
- International Lifeline Fund
- Iron Mountain
- LF Bioenergy
- NASA
- National Renewable Energy Laboratory (NREL)
- Natural Point
- Northwest Fourslide
- Obsidian Renewables
- Oldcastle Infrastructure
- Oregon Health and Science University
- Oregon Manufacturing Innovation Center (OMIC)
- Pacific Northwest National Laboratory
- Pacific Recycling Inc
- Raitong Organics
- Rugged Thread
- RUTE
- Shermco Industries
- Smartfin
- Summit co
- The National Aeronautics and Space Administration
- Tonsil Tech
- U.S. Forest Service
- Yogh Group



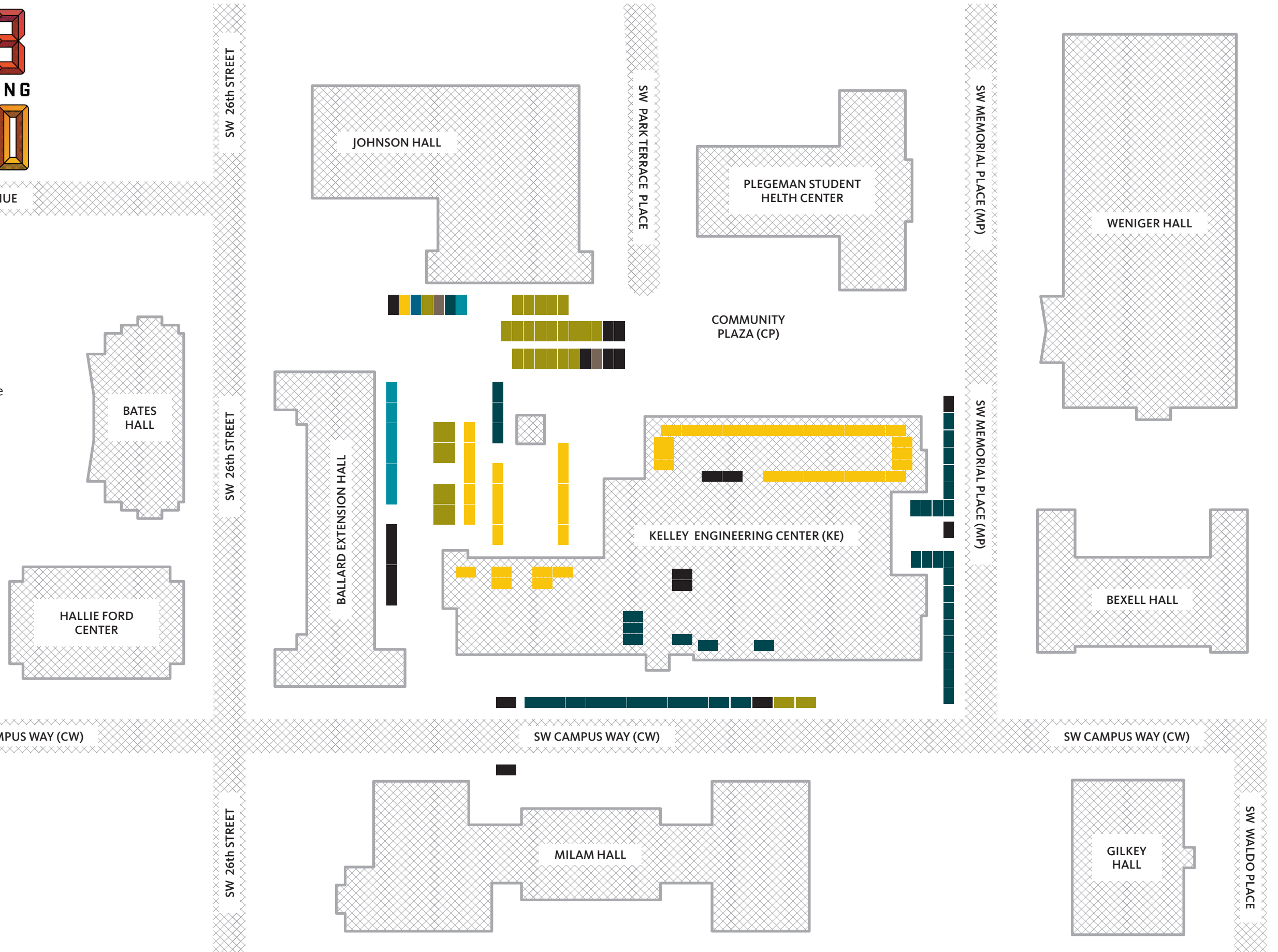
# 2023 ENGINEERING EXPO

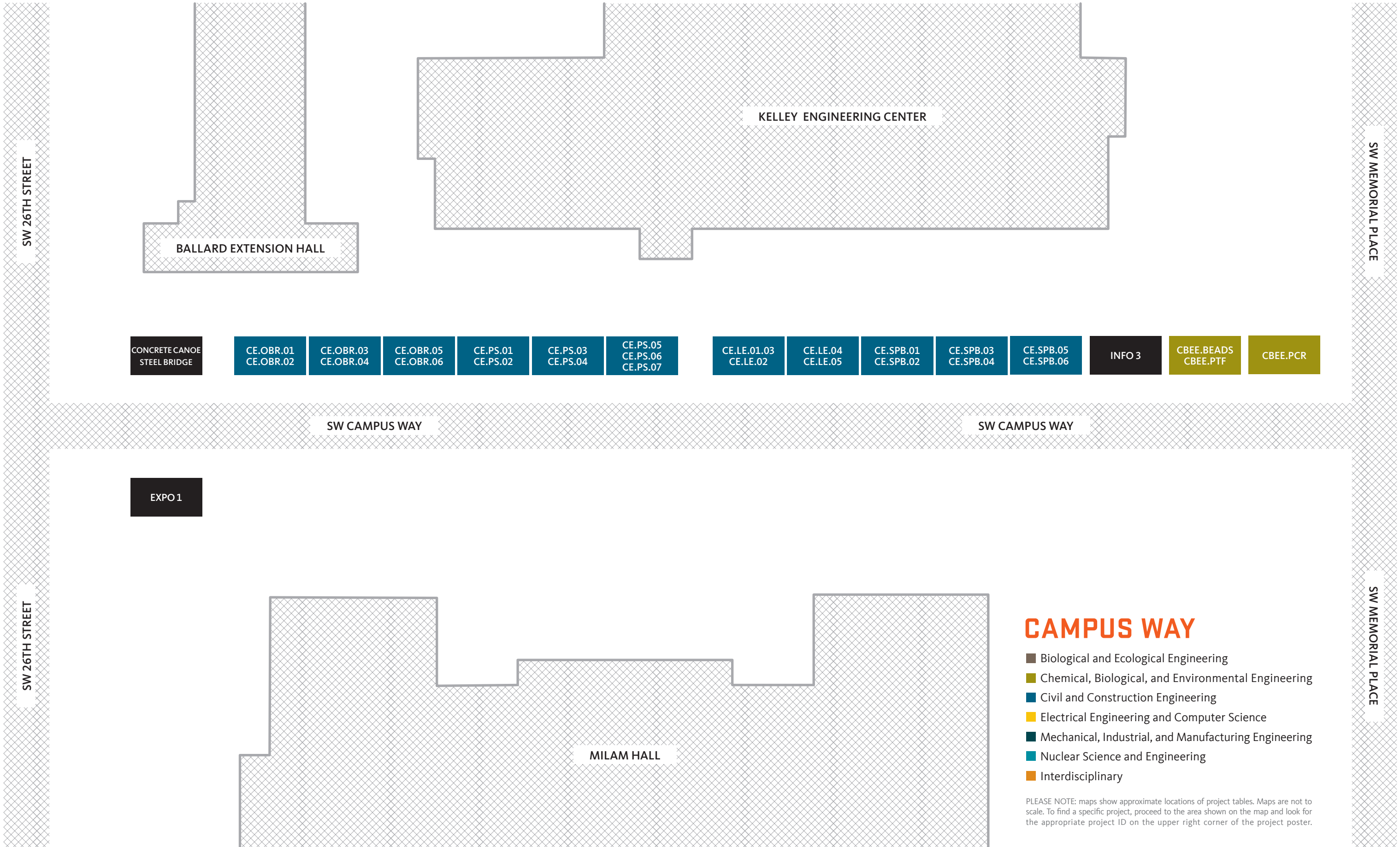
NW ORCHARD AVENUE

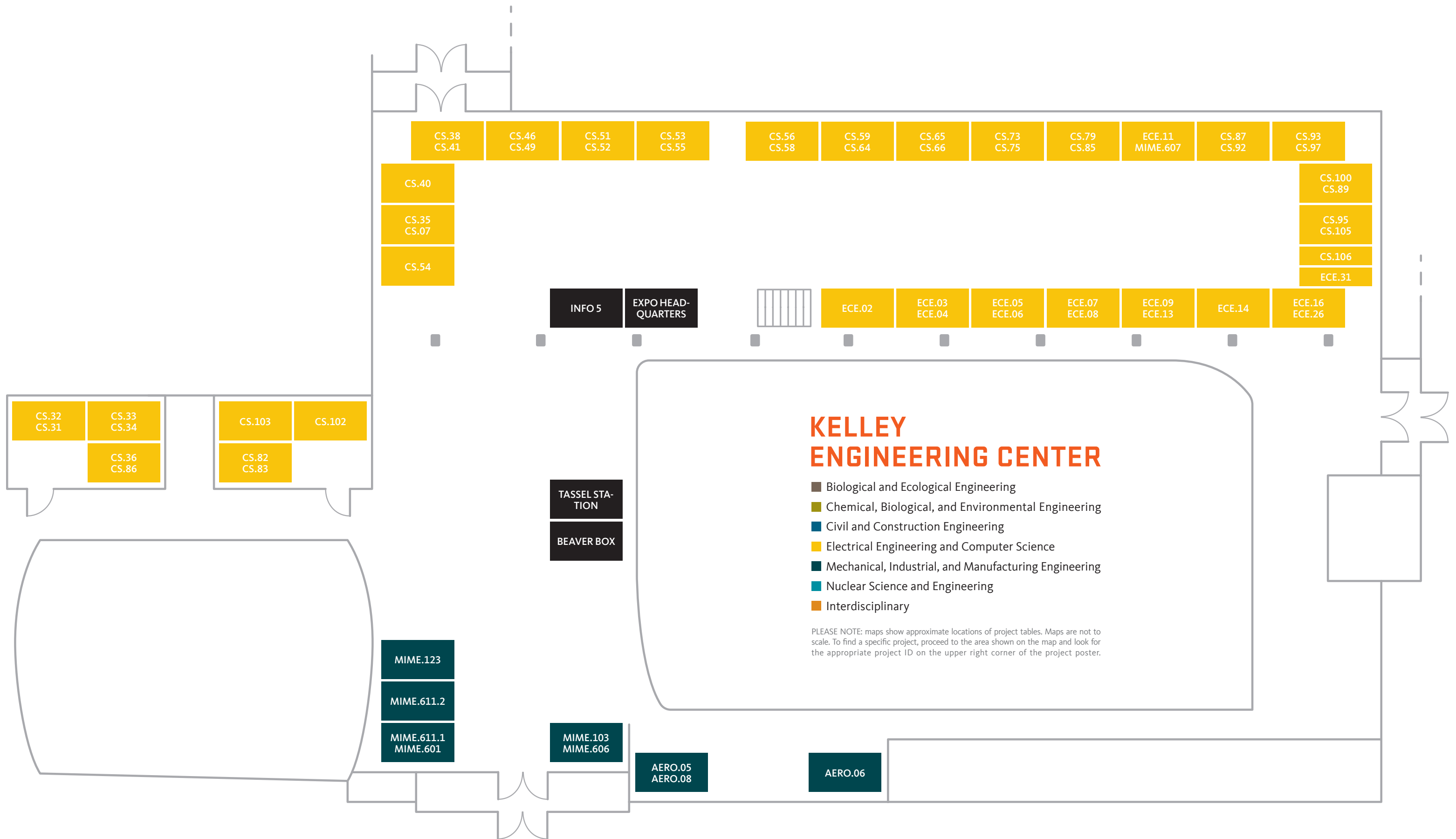
## OVERVIEW

- Biological and Ecological Engineering
- Chemical, Biological, and Environmental Engineering
- Civil and Construction Engineering
- Electrical Engineering and Computer Science
- Mechanical, Industrial, and Manufacturing Engineering
- Nuclear Science and Engineering
- Interdisciplinary

PLEASE NOTE: maps show approximate locations of project tables. Maps are not to scale. To find a specific project, proceed to the area shown on the map and look for the appropriate project ID on the upper right corner of the project poster.





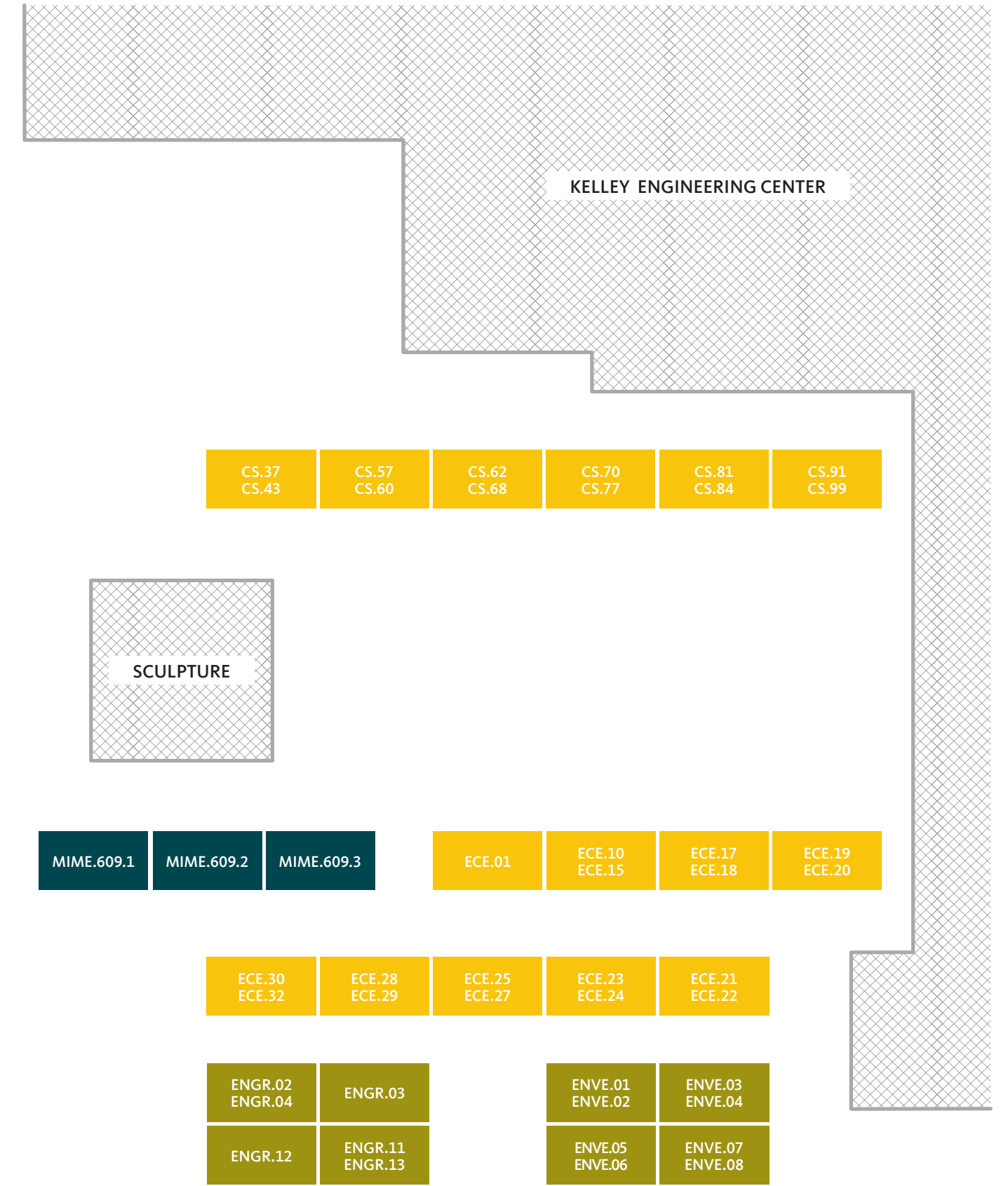


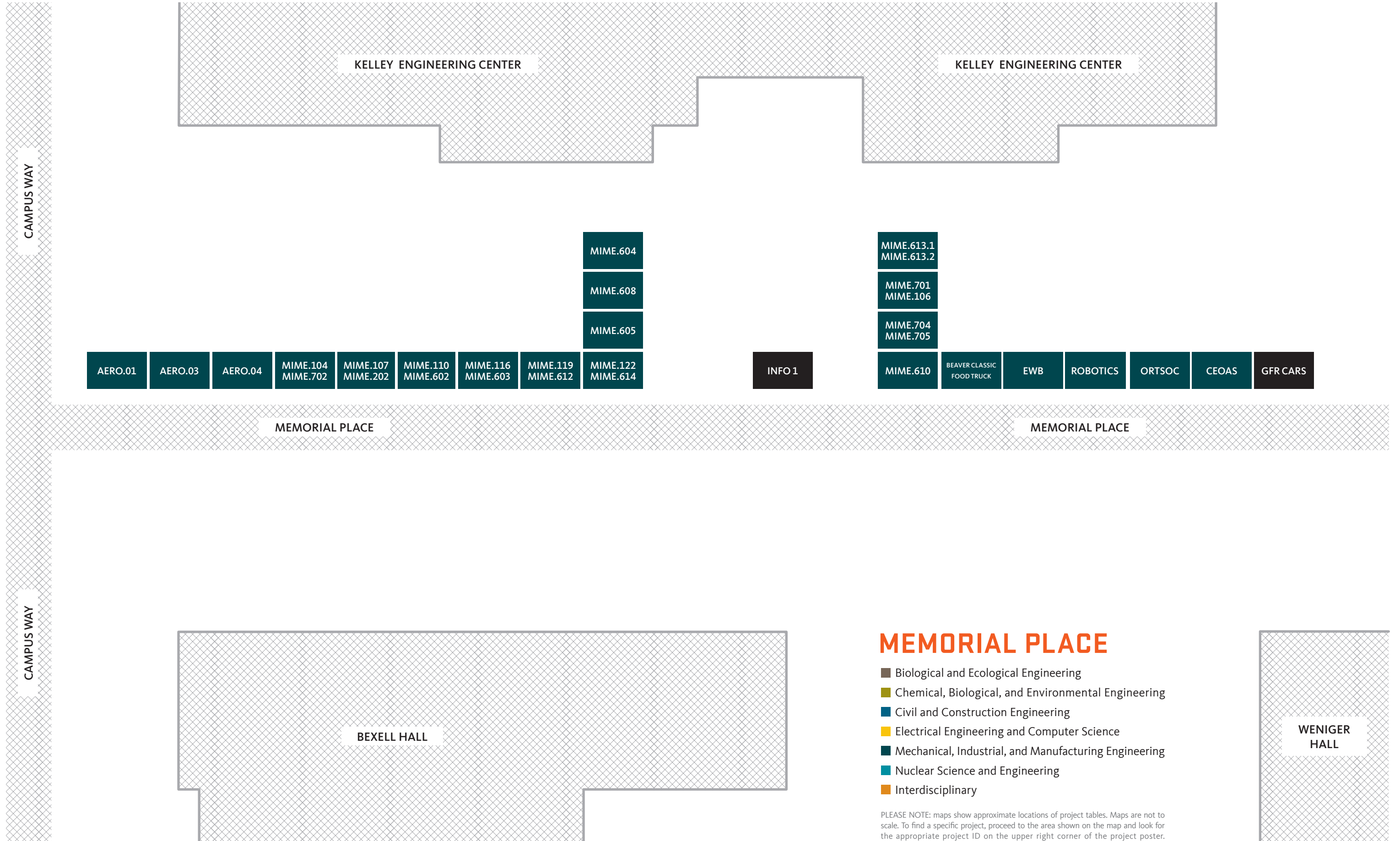


## COMMUNITY PLAZA

- Biological and Ecological Engineering
- Chemical, Biological, and Environmental Engineering
- Civil and Construction Engineering
- Electrical Engineering and Computer Science
- Mechanical, Industrial, and Manufacturing Engineering
- Nuclear Science and Engineering
- Interdisciplinary

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CAMPUS WAY

CAMPUS WAY

KELLEY ENGINEERING CENTER

KELLEY ENGINEERING CENTER

MEMORIAL PLACE

MEMORIAL PLACE

BEXELL HALL

WENIGER HALL

AERO.01 AERO.03 AERO.04 MIME.104 MIME.107 MIME.110 MIME.116 MIME.119 MIME.122  
 MIME.702 MIME.202 MIME.602 MIME.603 MIME.612 MIME.614

MIME.604  
 MIME.608  
 MIME.605

INFO 1

MIME.613.1  
 MIME.613.2  
 MIME.701  
 MIME.106  
 MIME.704  
 MIME.705

MIME.610 BEAVER CLASSIC FOOD TRUCK EWB ROBOTICS ORTSOC CEOAS GFR CARS

## MEMORIAL PLACE

- Biological and Ecological Engineering
- Chemical, Biological, and Environmental Engineering
- Civil and Construction Engineering
- Electrical Engineering and Computer Science
- Mechanical, Industrial, and Manufacturing Engineering
- Nuclear Science and Engineering
- Interdisciplinary

PLEASE NOTE: maps show approximate locations of project tables. Maps are not to scale. To find a specific project, proceed to the area shown on the map and look for the appropriate project ID on the upper right corner of the project poster.



## Project ID Index by Unit

PROJECT	ID	SITE	PROJECT	ID	SITE
<b>BIOLOGICAL &amp; ECOLOGICAL ENGINEERING</b>					
eDNA	BEE.2	CP	Nuclear Hydrogen Formation Utilizing Thermochemical Hybridized Steam Electrolysis	CHE.12	CP
EcoFlow Engineering - Posttreatment of water	BEE.3	CP	Production of Hydrogen from Nuclear Energy through High Temperature Steam Electrolysis	CHE.13	CP
Surge Solutions	BEE.4	CP	Technoeconomic analysis of High Temperature Steam Electrolysis for Hydrogen Production through Nuclear Energy.	CHE.14	CP
Electric Roots	BEE.1	CP	Hydrogen Fuel Precooler for Heavy Duty Vehicle Stations	CHE.15	CP
Electric Roots	BEE.1	CP	Hydrogen production Using an Alkaline Electrolyzer	CHE.16	CP
<b>CHEMICAL, BIOLOGICAL, AND ENVIRONMENTAL ENGINEERING</b>					
Team 1 - her. pads	BIOE.01	CP	From Cows to Fuel: Determining the Feasibility of Agricultural Waste-Sourced Hydrogen Fuel for Aviation	CHE.17	CP
SilkKare (Infection Detection Kit)	BIOE.03	CP	NREL Aviation	CHE.18	CP
Iman Adem, Wilson Tan, Mariana Trujillo	BIOE.04	CP	Subsurface storage of hydrogen	CHE.19	CP
HemaHALT: Hemostatic Trauma Spray	BIOE.05	CP	OR-1	CHE.20	CP
Capacity-Indicating Tampon	BIOE.07	CP	Feasibility of Hydrogen Storage in Polymer-Lined Concrete Facilities	CHE.21	CP
Porous Microneedle Patch and Applicator Device for Therapeutic Monitoring	BIOE.08	CP	Plug Power 2	CHE.22	CP
Red Light Vein Finder	BIOE.10	CP	PVC DN	CHE.23	CP
The Sweat Sucker 9000: Sweat Management Vacuum Attachment for Transfemoral Prosthetics	BIOE.11	CP	Development of green cement based on calcium silicate waste	CHE.24	CP
At-Home STI/UTI Pre Screening	BIOE.12	CP	Group 1	ENVE.01	CP
Undercover Umbrella	BIOE.02	CP	Lakedale Groundwater Treatment for the Crestop well	ENVE.02	CP
Hemo Buddy	BIOE.09	CP	Crestop Well Proposed Water Treatment Plan	ENVE.03	CP
Mega CrampBlaster 3000	BIOE.06	CP	Group 4: Crestop Well Drinking Water Treatment Design	ENVE.04	CP
Hydrogel Beads	CBEE.Beads	CW	Crestop Well Improvement Project	ENVE.05	CP
HP PCR PP/ Virgin PP Blends for Injection Stretch Blow Molding (ISBN) of Ink Jet Bottles	CBEE.PCR	CW	<b>CIVIL AND CONSTRUCTION ENGINEERING</b>		
PTF	CBEE.PTF	CW	Public Safety Bldg. Team 7	CE.PS.07	CW
Analog Devices CMP Recycled Wastewater Treatment	CHE.01	CP	Old BendRedmond Team 1	CE.OBR.01	CW
Analog Devices BPSG Design of Experiments	CHE.02	CP	Sports Perf.Basketball Team 3	CE.SPB.03	CW
Advancing Plastic Recycling: Pyoil Purification for a Circular Plastics Economy	CHE.03	CP	Old BendRedmond Team 5	CE.OBR.05	CW
Examining the Circular Economy of Plastics to Close Critical Gaps	CHE.04	CP	Sports Perf.-Basketball Team 2	CE.SPB.02	CW
Biogas Carbon Capture Using Isothermal Hydraulic Gas Processing	CHE.05	CP	Public Safety Bldg. Team 2	CE.PS.02	CW
KWA	CHE.06	CP	Levens & Ellendale Teams 1&3	CE.LE.01.03	CW
Hydrogen Gas Compression for a Modular Electrolysis System	CHE.07	CP	Old BendRedmond Team 6	CE.OBR.06	CW
E9-03	CHE.08	CP	Old BendRedmond Team 4	CE.OBR.04	CW
Analysis to Reducing Hydrogen Sulfide in Dairy Manure Biogas	CHE.09	CP	Public Safety Bldg. Team 1	CE.PS.01	CW
Producing Pink Hydrogen Through the Cu-Cl Cycle	CHE.10	CP	Public Safety Bldg. Teams 5&6	CE.PS.05.06	CW
Nuclear Hydrogen: High-Temperature Steam Electrolysis	CHE.11	CP	Sports Perf.-Basketball Team 4	CE.SPB.04	CW
			Public Safety Bldg. Team 4	CE.PS.04	CW
			Levens & Ellendale Team 4	CE.LE.04	CW
			Levens & Ellendale Team 5	CE.LE.05	CW

## Project ID Index by Unit

PROJECT	ID	SITE	PROJECT	ID	SITE
Old Bend-Redmond Team 2	CE.OBR.02	CW	Lift Chain "Stretch" Monitor	ECE.15	CP
Public Safety Bldg. Team 3	CE.PS.03	CW	Personal Data Acquisition Prototype	ECE.16	KE
Sports Perf.-Basketball Team 1	CE.SPB.01	CW	Rugged Threads	CS.37	CP
Old BendRedmond Team 3	CE.OBR.03	CW	Unreal Engine Network Multiplayer Game - Corvallis	CS.86	KE
Levens & Ellendale Team 2	CE.LE.02	CW	SAV1: Simple AV1 Video Playback	CS.41	KE
Sports Perf.Basketball Teams 5&6	CE.SPB.05.06	CW	High-Precision Low-Cost XYZ Stage	ECE.4	KE
<b>ELECTRICAL AND COMPUTER ENGINEERING</b>					
Team 26	ECE.26	KE	Veterinary Calculator Application	CS.106	KE
Water flow sensor	ECE.30	CP	Using VR for Efficient Training of Machine Operators	CS.49	KE
Anomaly Detection for Construction Use Case	CS.43	CP	Oh no! Where's the Rover?	ECE.10	CP
Best Design Beavers	CS.99	CP	FOSS Project Manager Software (Cuttlefish)	CS.95	KE
Patient Monitoring Robot	CS.40	KE	Deep Social Profiling	CS.51	KE
Autonomous Package Delivery Robot	ECE.13	KE	Product Competition 2	ECE.29	CP
Aviation VOR-reading handheld	ECE.22	CP	HDMI Calibration Tool	CS.85	KE
Dataflow Games	CS.32	KE	AgBiz Logic Data Visualization	CS.84	CP
Yoga Timer	ECE.9	KE	Vehicle Mileage Tracker	ECE.08	KE
Infinity Cube	ECE.28	CP	Using Augmented Reality to Visualize Live Structural Testing	CS.97	KE
Castor Consultants (UI/UX Design Team 3)	CS.105	KE	Synthetic Instrument Generator	CS.79	KE
Autonomous Vessel Vision System	CS.62	CP	Tree Segmentation from Arial Point Cloud	CS.93	KE
SeatCheck	ECE.17	CP	Text-to-Speech Synthesizer for Conlangs and Proto-Languages	CS.77	CP
Smart Dog Collar	CS.70	CP	Smart System to Automate Control of a Million Dollar Printing Press	CS.81	CP
SPH Fluid Simulator (Engineering Simulations with Game Development Tools)	CS.82	KE	Memento Bowl	ECE.31	KE
Bee Hive Monitoring System	ECE.07	KE	Mobile 3D Printer Robot	EC14	KE
Juno	CS.91	CP	CerealCode	CS.34	KE
Tailgater Scoreboard	ECE.06	KE	Real Estate CRM	CS.58	KE
GIS-based Analysis Tool for Disaster Recovery	CS.38	KE	High Performance Statistical Library	CS.75	KE
Tailgater Scoreboard	ECE06	KE	Update Tableau Data Sorting	CS.60	CP
ROS2 Plugin	CS.54	KE	Golf Drill Challenge App	CS.46	KE
EcoSense	ECE.27	CP	Delta Drivers	CS.31	KE
Transmission Connected Solar Power Generation and Battery Storage Site Dynamic Modeling and Assessment	ECE.19	CP	Security of Electronic Safe Locks	ECE.03	KE
ChatImprovR	CS.102	KE	Encroached Cockroach Studios	CS.33	KE
AI Artwork	CS.100	KE	Active Bird Defense	ECE.21	CP
Agriculture Sensor Network	ECE.23	CP	Music Score Visualization in Python	CS.68	CP
NanoLux Audio Visualizer	CS.89	KE	Compute-efficient Real-time Voice Cloning	ECE.18	CP
Optical Feedback Wearable 2	ECE.32	CP	Schedule-It	CS.92	KE
			MIDI Performance Data Collection	CS.65	KE
			Food Image Data Collection App	CS.64	KE

KEY: CP - Community Plaza; CW - Campus Way; JH - JOHNSON HALL; KE - Kelley Engineering Center; MP - Memorial Place

## Project ID Index by Unit

PROJECT	ID	SITE
VibroSonics: Haptic Audio Sensations	ECE.11	KE
VibroSonics	ECE.11	KE
VibroSonics: Haptic Audio Sensations	ECE.11	KE
Smartfin	ECE.24	CP
Universal Chip Programmer for PIC16	ECE.5	KE
VibroSonics: Haptic Audio Sensations	CS.87	KE
Travel Planner	CS.52	KE
Dating app for animal adoption	CS.73	KE
Open-Source Classroom Polling Software	CS.56	KE
Farming in the Climate Change Era	ECE.01	CP
Audio Zoo	CS103	KE
Engineering Simulations with Game Development Tools: Dynamics	CS.83	KE
Soil Sense: The all-in-one Soil Parameters Measuring Solution	ECE.25	CP
Collision Course: Jupiter Drift	CS.36	KE
Nugget Prospecting Tool	ECE.02	KE
Sensor System for In-Home Climate Control	ECE.20	CP
Classroom VR For Heavy Civil Operations	CS.35	KE
PNW Plant Marketplace (Seedy)	CS.57	CP
Crypto Infrastructure Funding	CS.53	KE
SMARTBin Smart Recycling Bin	CS.59	KE
Music Affect Data Collection App	CS.66	KE
Sensor System for Self-Driven In-Home Climate Control	CS.55	KE

## MECHANICAL, INDUSTRIAL, AND MANUFACTURING ENGINEERING

Panel Stacking	MIME.602	MP
Recycling	MIME.705	MP
Eco2Go	MIME.603	MP
NASA Robotic Explorer: Remote Probing System	MIME.123	KEC
Automatic Seed Cutter	MIME.601	KEC
Team 107 LTO Cartridge Recycling	MIME.107	MP
Vibrosonics	MIME.607, CS.87, ECE.11	MP
Dendrometer Improvements	MIME.702	MP
Bike Load Test	MIME.604	MP
Aerospace Propulsion Outreach Program (APOP)	ENGR.03	CP
NASA USLI	AERO.08	KE
Lifeline Manufacturing Uganda	MIME.701	MP

PROJECT	ID	SITE
609.1 Sumobot	MIME.609.1	MP
Powering Healthcare by Switching Gears: Electrifying SHS's Courier Fleet with Operations Research	MIME.202	MP
Wood Heaters	MIME.608	MP
Solar Airplane	AERO.06	KEC
Team 610 Sustainable Food Truck	MIME.610	MP
High Altitude Rocket Team	AERO.04	MP
704 PCP Optimize	MIME.704	MP
611.1 Asteroid Landing	MIME.611.1	KE
Meltio M450 Fourth-Axis Fixture	MIME.106	MP
TonsiFIX Material Selection	MIME.122	MP
Safety Harness	MIME.614	MP
SoFuel Team #110	MIME.110	MP
Plate Imaging System	MIME.119	MP
HALE	AERO.03	MP
609.3	MIME.601	KEC
Head Set Slip Ring	MIME.107	MP
Perpetual Motion	MIME.607, CS.87, ECE.11	MP
Summit V2 Flowstride	MIME.702	MP
NASA Psyche Landing System	MIME.604	MP
Energy Generation	ENGR.03	CP
Ion Engine	AERO.08	KE
Perpetual Motion Machine	MIME.701	MP
606 Eco-Friendly Toaster	MIME.609.1	MP
Sumobot	MIME.202	MP
Dendrometer	MIME.608	MP
Micro Aero West	AERO.06	KEC
Agricultural Drone	MIME.610	MP
High Altitude Rocket Team	AERO.04	MP
704 PCP Optimize	MIME.704	MP
611.1 Asteroid Landing	MIME.611.1	KE
Meltio M450 Fourth-Axis Fixture	MIME.106	MP
TonsiFIX Material Selection	MIME.122	MP
Safety Harness	MIME.614	MP
SoFuel Team #110	MIME.110	MP
Plate Imaging System	MIME.119	MP
HALE	AERO.03	MP

## Project ID Index by Unit

PROJECT	ID	SITE
609.3	MIME.609.3	MP
Head Set Slip Ring	MIME.605	MP
Perpetual Motion	MIME.613.2	MP
Summit V2 Flowstride	MIME.116	MP
NASA Psyche Landing System	MIME.611.2	KE
Energy Generation	MIME.612	MP
Ion Engine	MIME.103	KE
Perpetual Motion Machine	MIME.613.1	MP
606 Eco-Friendly Toaster	MIME.606	KE
Sumobot	MIME.609.2	MP
Dendrometer	MIME.104	MP
Micro Aero West	AERO.05	KE
Agricultural Drone	AERO.01	MP

## NUCLEAR SCIENCE AND ENGINEERING

Management of waste from fusion reactors	NSE.09	CP
Exploration of Tritium Breeding in Fusion Stellarators	NSE 475, Group #5	CP
Cyber security risk assessment of the CTBTO's global infrastructure	NSE 475, Group 7	CP
Destructive Nuclear Fuel Plate Testing	NSE.1	CP
Generating Energy on Mars	NSE.2	CP
The Pu Blues	NSE.3	CP
Optimal Recovery of Radionuclides from Aqueous Feed using Microscale Extraction	NSE.4	CP
Pink Hydrogen Production	NSE 475, Group 6	CP
Management of Radioactive Companion Animals During an Emergency Evacuation	NSE 475 Group 8	CP

## INTERDISCIPLINARY

Analyzing the hydrodynamic loading effects of satellite tags on sharks	ENGR.02	CP
Natural Fiber	ENGR.04	CP
Mobility Robot	ENGR.12	CP
Solar Electricity Generator	ENGR.11	CP

## Student Index by Unit

NAME	ID	SITE	
LAST	FIRST		

### BIOLOGICAL AND ECOLOGICAL ENGINEERING

Betts	Jordan	BEE.2	CP
Domanski	Stefan	BEE.4	CP
Ishida	Kent	BEE.3	CP
Pereyra	Olivia	BEE.1	CP

### CHEMICAL, BIOLOGICAL, AND ENVIRONMENTAL ENGINEERING

Adem	Iman	BIOE.4	CP
Alsheblawi	Murtadha	CHE.11	CP
Anderson	Daniel	CHE.04	CP
Bachman	William	CHE.06	CP
Burgis	Autumn	BIOE.9	CP
Cary	Maegan	CHE.08	CP
Chang	Victoria	CHE.17	CP
Cole	Emerson	ENVE.03	CP
Crawford	Dustin	CHE.07	CP
Creagh-Grave	Natalia	CHE.18	CP
Davis	Audrey	CBEE.Beads	CP
Denlinger Drumm	Natalie	ENVE.08	CP
Dieringer	Zachariah	BIOE.05	CP
Dorris	Leah	ENVE.07	CP
Doyle	Carter	BIOE.11	CP
Gordon	Mary	CHE.21	CP
Gramm	Dominique	BIOE6	CP
Haddadin	Andrea	BIOE.10	CP
Hankins	Martin	CHE.03	CP
Hasbrook	AnneMarie	BIOE.01	CP
Helikson	Stuart	CHE.01	CP
Johnston	Charles	CHE.19	CP
Kaewwisit	Krystal	CHE.05	CP
Kunihiro	Ashley	CHE.16	CP
Light	Koen	CHE.12	CP
Marks	Rylee	CHE.13	CP

NAME	ID	SITE	
LAST	FIRST		

McNabb	Ramsey	ENVE.01	CP
Panose	Anya	CHE.10	CP
Pasche	Madeline	CBEE.PTF	CP
Phillips	Kyle	BIOE.08	CP
Rinell	Caden	BIOE.12	CP
Schindler	Zachary	CHE.22	CP
Seitz	Sarah	ENVE.06	CP
Sheets	Emma	ENVE.04	CP
Slough	Katie	BIOE.2	CP
Smallwood	Ethan	BIOE.03	CP
Smith	Devin	ENVE.02	CP
Smythe	Isaac	CHE.02	CP
Spencer	Casey	CHE.20	CP
Stewart	Colin	CHE.15	CP
Tran	Franchesca	CHE.23	CP
Varga	Geneva	ENVE.05	CP
Wiebe	Luke	CBEE.PCR	CP
Wiebe	Luke	CHE.14	CP
Williams	Jacob	CHE.09	CP
Zhen	Ziyi	BIOE.07	CP
Smythe	Isaac	CHE.02	CP
Spencer	Casey	CHE.20	CP
Stewart	Colin	CHE.15	CP
Tran	Franchesca	CHE.23	CP
Varga	Geneva	ENVE.05	CP
Wiebe	Luke	CBEE.PCR	CP
Wiebe	Luke	CHE.14	CP
Williams	Jacob	CHE.09	CP
Zhen	Ziyi	BIOE.07	CP

### CIVIL AND CONSTRUCTION ENGINEERING

Alton	Taylor	CE.PS.07	CW
Beckstaiger	Brendan	CE.OBR.01	CW
Chew	Alan	CE.SPB.03	CW
Davis	Trevin	CE.OBR.05	CW

NAME	ID	SITE	
LAST	FIRST		

Harmon	Cade	CE.SPB.02	CW
Hoepfinger	Chloe	CE.PS.02	CW
Holland	Gannon	CE.LE.01.03	CW
Husseini	Aleksander	CE.OBR.06	CW
Hyatt	Charles	CE.OBR.04	CW
Jenck	Charlie	CE.PS.01	CW
Kittleson	Kalei	CE.PS.05.06	CW
Lewandowski	Madeline	CE.SPB.04	CW
McCauley	Jessica	CE.PS.04	CW
Mendez	Aaron	CE.LE.04	CW
Murphy	Liam	CE.LE.05	CW
Piro	Nicholas	CE.OBR.02	CW
Pitari	Ines	CE.PS.03	CW
Skelton	Garet	CE.SPB.01	CW
Stallings	Ryan	CE.OBR.03	CW
Umberger	Gabriel	CE.LE.02	CW
Woodside	Nicole	CE.SPB.05.06	CW
Heatherly	Tanner	NSE 475, Group #5	CP
Hoffman	Coleman	NSE 475, Group 7	CP
Moore	Alexander	NSE.1	CP
Rice	Daniel	NSE.2	CP
Sprague	Paul	NSE.3	CP
Stumpf	Ian	NSE.4	CP
Ward	Matthew	NSE 475, Group 6	CP
Zapzalka	MaKenna	NSE 475 Group 8	CP

### ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Aimba	Renee	ECE.26	KE
Al-Khalifa	Mohammed	ECE.30	CP
Allen	Stuart	CS.43	CP
Balasankar	Karthiyesan	CS.99	CP
Ballapragada	Rohan	CS.40	KE
Beleno	Bolivar	ECE.13	KE
Brennan	Taylor	ECE.22	CP
Bright	Devin	CS.32	KE

## Student Index by Unit

NAME	ID	SITE	
LAST	FIRST		

Lee	Junsu	CS.93	KE
Leshner	Gavin	CS.77	CP
Lin	Lucy	CS.81	CP
Lopez-Hernandez	Yovany	ECE.31	KE
Masiel	Ethan	EC14	KE
Mason-Blaug	Zackery	CS.34	KE
McConnell	Cody	CS.58	KE
Meyer	Matthew	CS.75	KE
Miller	Spencer	CS.60	CP
Moncada	Emmanuel	CS.46	KE
Olels	Curtis	CS.31	KE
Owen	Connor	ECE.03	KE
Pham	Duy	CS.33	KE
Pitzler	Hunter	ECE.21	CP
Prestwich	Alexander	CS.68	CP
Raffel	Matthew	ECE.18	CP
Ramesh	Santos	CS.92	KE
Rein	Scot	CS.65	KE
Reynolds	Luke	CS.64	KE
Roelle	Tyler	ECE.11	KE
Roelle	Tyler	ECE.11	KE
Rooelle	Tyler	ECE.11	KE
Rueda	Paolo	ECE.24	CP
Salagean	Darius	ECE.5	KE
Smith	Garrett	CS.87	KE
Solomon	Cole	CS.52	KE
Spring	Cody	CS.73	KE
Stewart	Mitchell	CS.56	KE
Sutton	Isaac	ECE.01	CP
Tassin	Ian	CS103	KE
Thompson	Allison	CS.83	KE
Ventura	Brennan	ECE.25	CP
Villamor	Joel	CS.36	KE
Viray	Christopher	ECE.02	KE
Wiker	Blake	ECE.20	CP
Wilson	Dominic	CS.35	KE
Yarbrough	Nicole	CS.57	CP

NAME	ID	SITE	
LAST	FIRST		

Yermurat	Altynbek	CS.53	KE
Young	Jovan	CS.59	KE
Young	Andrew	CS.66	KE
Zimmerman	Ryan	CS.55	KE

### MECHANICAL, INDUSTRIAL, AND MANUFACTURING ENGINEERING

Ahern	Cameron	MIME.602	MP
Almaktary	Abdulaziz	MIME.705	MP
Almaraz	Mario	MIME.603	MP
Backus	Stormi	MIME.123	KE
Beans	Jason	MIME.601	KE
Berglin	John	MIME.107	MP
Bestel	Hans	MIME.607, CS.87, ECE.11	MP
Brown	Sydney	MIME.702	MP
Carnahan	Jordon	MIME.604	MP
Coburn	Raquel	ENGR.03	CP
Colton	Jacob	AERO.08	KE
Cooley	Madison	MIME.701	MP
Cooper-Murray	Lucas	MIME.609.1	MP
Corbett	Brianna	MIME.202	MP
Coto	Paula	MIME.608	MP
Curtis	Christopher	AERO.06	KE
Dexter	Brendan	MIME.610	MP
Franz	Luke	AERO.04	MP
Gaul	Sophie	MIME.704	MP
Jackson	Tristan	MIME.611.1	KE
Jensen	Luke	MIME.106	MP
Justen	Gabriella	MIME.122	MP
Knutsen	Cameron	MIME.614	MP
McPhun	Josh	MIME.110	MP
Merlan	Maxfield	MIME.119	MP
Miller	Nick	AERO.03	MP
Muenzer-Trumm	Eric	MIME.609.3	MP
Norriss	Trinity	MIME.605	MP

# Student Index by Unit

NAME		ID	SITE
LAST	FIRST		
O'Connell	James	MIME.613.2	MP
Palmer	Joshua	MIME.116	MP
Parks	John	MIME.611.2	KE
Pham	Oscar	MIME.612	MP
Preston	Brent	MIME.103	KE
Radtke	William	MIME.613.1	MP
Santos	Danny	MIME.606	KE
Schofield	Ryan	MIME.609.2	MP
Sears	Ayra	MIME.104	MP
Villanueva	George	AERO.05	KE
Wahl	Michael	AERO.01	MP

## NUCLEAR SCIENCE AND ENGINEERING

Al-Fadala	Mohammed	NSE.1	CP
Almansoori	Mubarak	NSE.2	CP
Almansoori	Matar	NSE.2	CP
Alrashdi	Saeed	NSE.1	CP
Alruwaili	Khalid	NSE.1	CP
Ashing	Brianna	NSE.5	CP
Brackbill	Anneli	NSE.5	CP
Castor	Jonathan	NSE.6	CP
Epperly	Austin	NSE.9	CP
Gentile	Ben	NSE.6	CP
Konstanczer	Brooke	NSE.5	CP
Kulah	Christopher	NSE.7	CP
Lynch	Elias	NSE.9	CP
Northrop	Jordan	NSE.5	CP
Pham	Maija Linh	NSE.1	CP
Roberts	Baylen	NSE.2	CP
Story	Taighlor	NSE.7	CP
Sundaram	Subisha	NSE.1	CP
Tucker	Zane	NSE.7	CP
Williams	Quinton	NSE.7	CP
Wilson	Allison	NSE.9	CP
Yamomo	Lawrence	NSE.9	CP

# NOTES

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