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APRIL 10TH-11TH

2026

FORGING THE FUTURE
VISITOR'S GUIDE

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For More Information

Visitor's Booth

Have any questions? Need another visitor's guide? Exhibit suggestions? Find our volunteers to answer your questions in the Campus Instructional Facility (CIF), outside Sidney Lu Mechanical Engineering Building, outside Electrical and Computer Engineering Building (ECEB), or the courtyard between the Siebel Center for Computer Science and the National Center for Supercomputing Applications (NCSA).

Food

Look out for our students' favorite food trucks on Mathews Avenue, including:

- Juanitos Tacos
- La Paloma
- Burrito King
- Pastamania
- Brien's Bistro
- Smith Burger Company
- Kona Ice
- Travelin' Toms Coffee
- Urban Oasis
- Stango Cuisine

Shirt Colors

Have a question? Check here to see who to ask!

- Volunteers - Sunset
- Exhibitors - Cosmic Purple
- Committee Members - White
- Sponsors - Aquatic
- Judges - Cardinal Red
- HSDC - Light Pink
- MSDC - Yellow Haze
- Start-Up Showcase - Dark Green
- Visitors - Azure Blue

In Case of an Emergency

Severe Weather

Please check our website in case of severe weather to see where exhibits will be held.
<https://eohillinois.org>

Missing Child

In the case of a lost/missing child: Notify the visitor's booth nearest to you that you have custody of a lost child. A volunteer will bring the lost child to the visitor's booth in CIF, notify 911, and meet the reporting person and the lost child there. This is where a parent/guardian can meet the child.

Medical Concerns

In case of injury, immediately notify any nearby volunteer and go to the EMS tent on Graziano Plaza, in between Engineering Hall and Everitt Laboratory.

Local Hospitals

Carle Foundation Hospital
Presence Covenant Medical Center

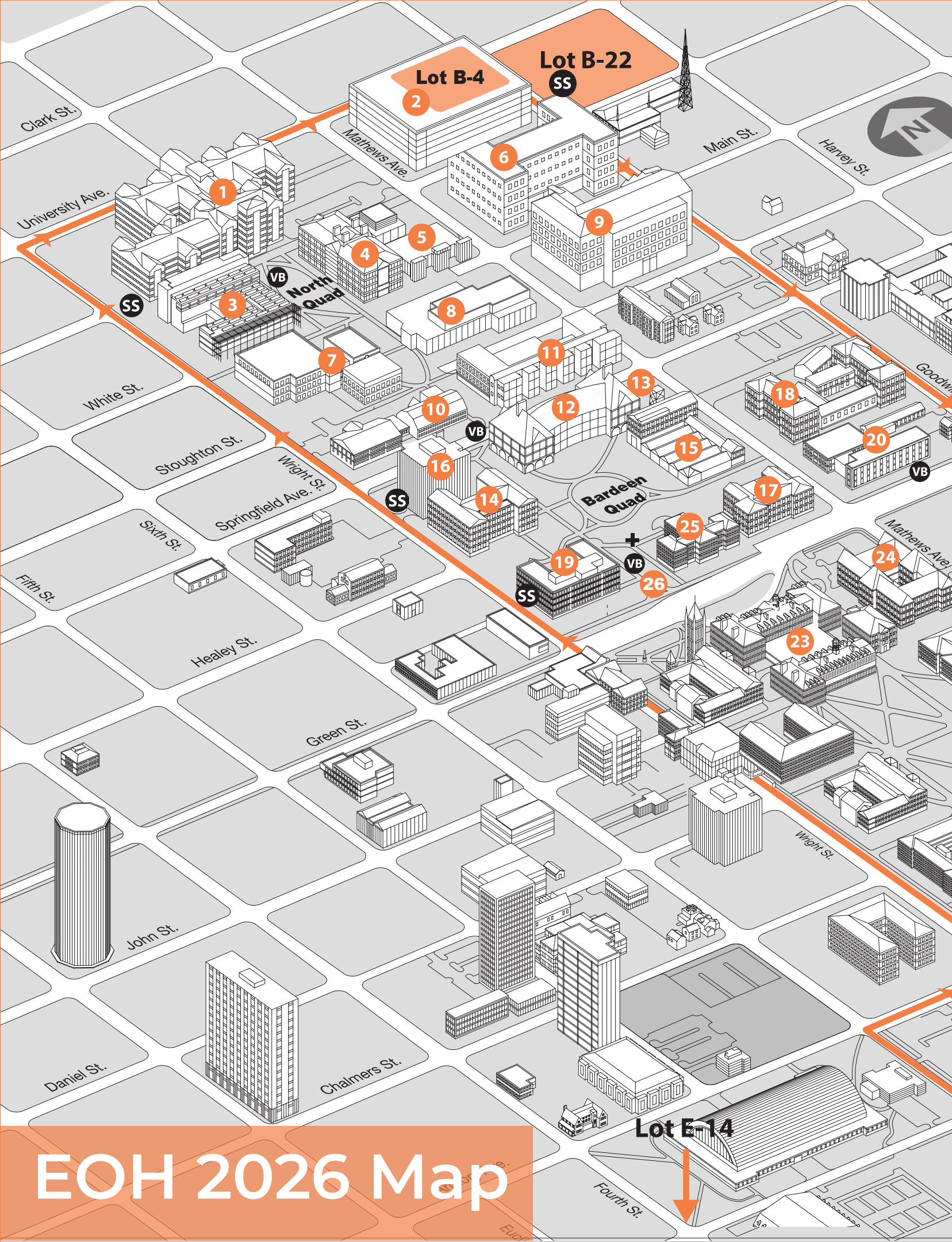
Lost and Found

Missing items can be brought to our lost and found at the Visitor's Booth in CIF between 9 am and 5 pm on Friday and Saturday or at the Engineering Council Office (Engineering Hall 103C) any other time.

Other Emergencies

Approach any EOH volunteer in the Visitor's Booth in the Campus Instructional Facility.

All minors must be accompanied by a parent or guardian!



Lot B-4

Lot B-22

Clark St.

University Ave.

Mathews Ave.

Main St.

Harvel St.

White St.

Stoughton St.

Springfield Ave.

Sixth St.

Fifth St.

Healey St.

Green St.

John St.

Daniel St.

Chalmers St.

Fourth St.

Lot E-14

EOH 2026 Map

1. Beckman Institute
2. Coordinated Science Laboratory (CSL) Studio
3. Electrical and Computer Engineering Building (ECEB)
4. Coordinated Science Laboratory (CSL)
5. Hydrosystems Laboratory
6. National Center for Supercomputing Applications (NCSA)
7. Nick Holonyak Jr. Micro & Nanotechnology Laboratory
8. Newmark Civil Engineering Laboratory
9. Siebel Center for Computer Science
10. Kenney Gym Annex
11. Digital Computer Laboratory (DCL)
12. Grainger Engineering Library
13. Grainger Loading Dock
14. Talbot Laboratory
15. Mechanical Engineering Laboratory (MEL)
16. Campus Instructional Facility (CIF)
17. Materials Science and Engineering Building (MSEB)
18. Transportation Building
19. Everitt Laboratory
20. Sidney Lu Mechanical Engineering Building (LuMEB)
21. Loomis Laboratory
22. Materials Research Laboratory (MRL)
23. Illini Union
24. Natural History Building
25. Engineering Hall
26. Graziano Plaza
27. Observatory

VB

Visitor's Booth

SS

Shuttle Stop

+

Emergency Medical Services

■

Parking Lot



PARKING AND SHUTTLE INFORMATION

Parking

On Friday and Saturday, visitors can park in these lots:

Lot E-14: Near State Farm Center. Can be used for all-day parking on Friday April 10th and Saturday April 11th. The shuttle will pick visitors up from E-14 and drop them to the Bardeen Quad/ other exhibits.

Lot B-4: North campus, can also be used for all day parking April 10th/11th. There is no shuttle stop here the closest stop would be B-22.

On Saturday, visitors can also park in:

B1- Springfield Avenue between Mathews and Goodwin, B17- Harvey Street between Clark and Main, C09- Chalmers and Sixth, D09- Illinois and Lincoln, E14- First Street and Kirby, F23- Lincoln Avenue and Florida, F28- Peabody and Dorner Drive, B4- University and Mathews, F29- Gregory and Dorner Drive.

Pick-up and Drop-off

B-22 will be used for bus parking, buses will only be able to pick up/drop off there. Visitors must take the shuttle or walk to B-22 and leave from there at the end of their day if being picked up by a bus.

Street Closures

W. Springfield Ave (Wright to Mathews) and S. Mathews St (Green to Springfield) will be closed. Only sponsors, committee members, F&S vehicles, emergency vehicles will be allowed in. The road will be closed from 7 am to 6 pm.

Shuttle Information

The shuttle will run from 8:00 am to 5:30 pm Friday and Saturday. Shuttle stops will be:

Lot E-14

Lot B-1

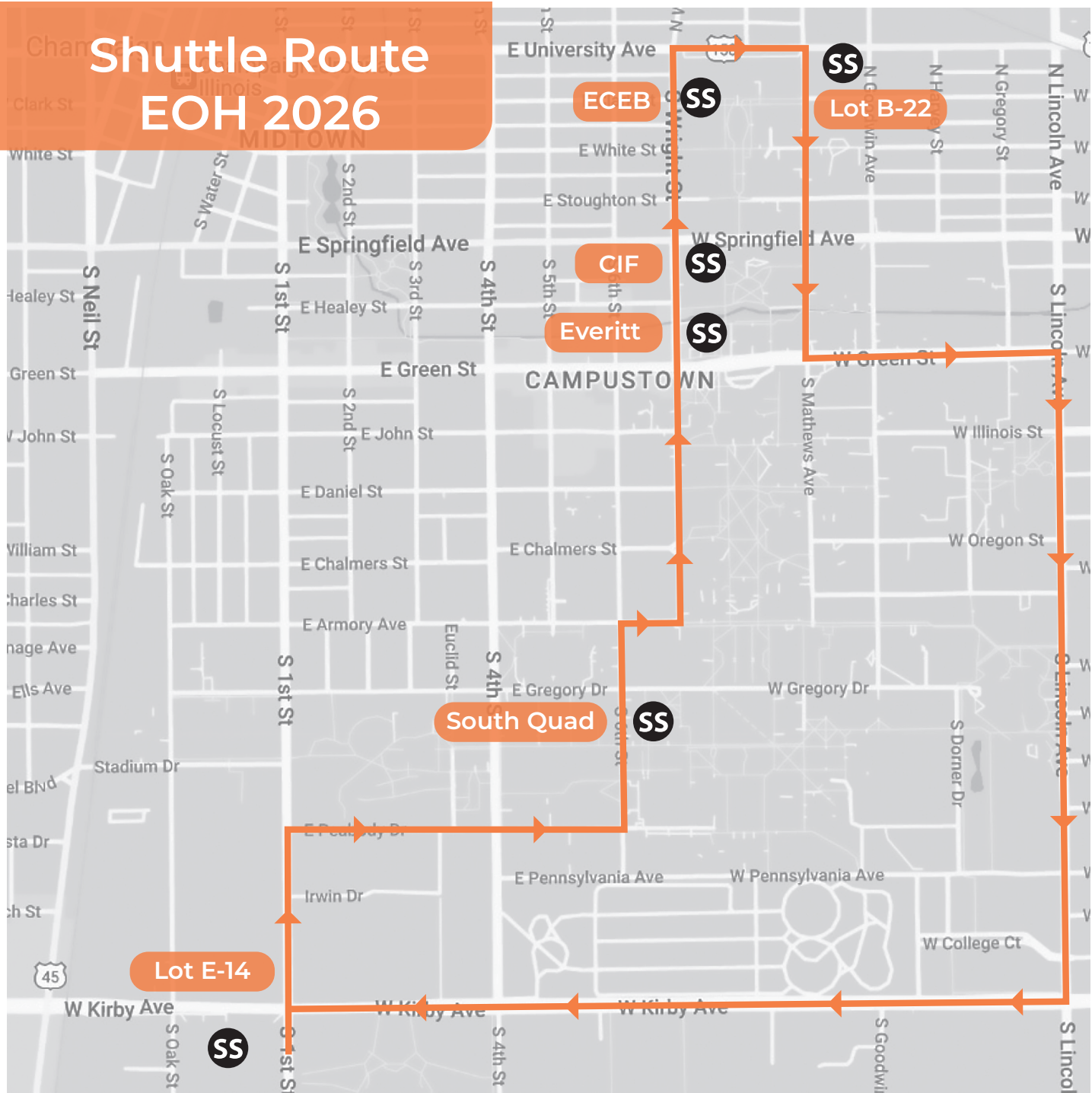
Everitt Laboratory

Electrical and Computer Engineering (ECEB)

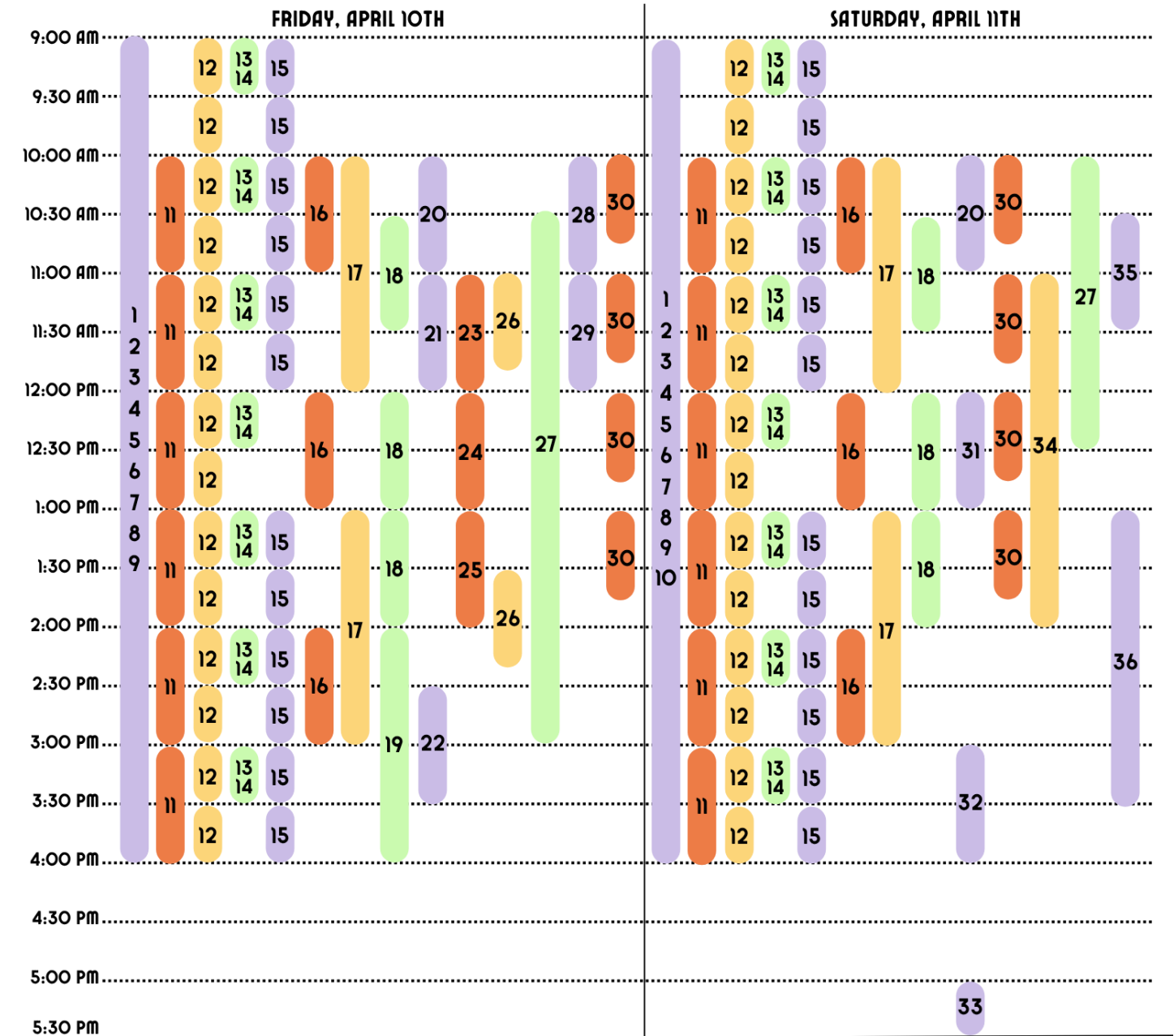
Lot B-22

and then will return to E-14 and repeat.

PARKING AND SHUTTLE INFORMATION



SCHEDULE OF SPECIAL EVENTS



FRIDAY EVENING

8:00 PM

8:30 PM

9:00 PM

9:30 PM

10:00 PM

35

1. American Society of Civil Engineers (ASCE)
2. Computer Science Games and Activities
3. NovoPrint 3-D Printing Robotic Arm
4. Illini Pullers
5. Satellite Sightseeing
6. Dept of Climate, Meteorology, Atmospheric Sciences
7. LabEscape (by appointment only)
8. Robobrawl Design, Print, Destroy!
9. Pacbot Competition
10. Reimagining Cultivation & Agricultural Production Systems by Crop Sciences @ Illinois
11. GlideControl
12. The Icing on the Machine: A Rube Goldberg Story
13. Shark Tank
14. Rocket Races
15. Keeping Our Rivers Green
16. Physics Van
17. Superhero Hospital
18. ESTAR Engineering Campus Tours
19. Alumni Coffee Chats
20. I'm Admitted! Grainger Engineering Welcome: Student Panel

21. I'm Admitted! Grainger Engineering Welcome: College Resource Fair
22. Keynote Speaker- Christina Ersnt
23. CAD Workshop
24. Web Design Workshop
25. Python Workshop
26. Chai Town
27. Face Painting
28. Professor Panel
29. Alumni Panel
30. Hybrid Illinois Device for Research and Applications (HIDRA)
31. Alumni Reception
32. Keynote Speaker- Aadeel Akhtar
33. Joint Q&A with Keynote Speakers: Christina Ersnt & Aadeel Akhtar
34. Mom's Weekend Design Challenge
35. Startup Showcase Keynote Speaker -Johana Vega Leone
36. Startup Showcase Pitch Competition
37. Tesla Coil Concert

Keynote Speaker

CIF Monumental Steps **Friday 2:30 - 3:30 pm (Christina Ernst), Saturday 3-4 pm (Aadeel Akhtar), Saturday 5-5:30 pm (Joint)**

The two accomplished alumni of University of Illinois Urbana-Champaign, Christina Ernst and Dr Aadeel Akhtar are one of the leading examples of how innovation in engineering can transform lives and expand creative boundaries. Christina Ernst is a senior software engineer at Google and the fashioning content creator behind She Builds Robots (@shebuildsrobots). Her tech-fashion crossover work has been featured in CNN Style, Make: Magazine, Forbes, Entertainment Weekly, CBC, and Popular Science. Dr. Aadeel Akhtar, the founder and CEO of PSYONIC is on the forefront of redefining prosthetic technology. His innovations, such as the Ability Hand, combines neuroscience, robotics, and human-centered design to improve quality of life worldwide.

Tesla Coil Concert

Bardeen Quad **Friday 8:30-9:30 pm**

Just as dark falls, visit the Bardeen Quad to see an electrifying display of light and sound.

Build-a-Blinkie

CIF 0035 **Friday and Saturday 9 am-4 pm**

Build-a-Blinkie is an organization dedicated to the teaching of STEM. We are teaching people to solder one blinkie at a time. Come check out this interactive activity and take home your own soldered blinkie!

ESTAR Tour

ESTAR Booth outside CIF **Friday and Saturday 10:30 am, 12 pm, and 1 pm**

Come learn more about the Grainger College of Engineering with a tour from an engineering student admissions representative (ESTAR)! One-hour tours depart from the Bardeen Quad at 10:30am, 12:00pm and 1:00pm. No registration necessary!

American Society of Civil Engineers (ASCE)

Newmark Civil Engineering Lab **Friday and Saturday 9 am-4 pm**

ASCE will have a spin-the-wheel game with civil engineering trivia for visitors of all ages. Prizes will be available for winners. There will also be a concrete cornhole game.

Build Your Own Terrarium / Make Your Own Soda Tab Buddy

National History Building 2078 **Friday 11 am - 1:30 pm**

Join us for two separate hands-on sustainability workshops: create a mini terrarium ecosystem in a jar to learn about natural cycles, or upcycle recycled soda can tabs into fun "tab buddies" to turn everyday waste into something reusable.

Computer Science Games and Activities

Thomas M. Siebel Center for Computer Science **Friday and Saturday 9 am-4 pm**

Come explore all you can do with Computer Science and AI! Organized by Siebel School of Computing and Data Science, these two rooms will feature many interactive activities for all ages.

Department of Climate, Meteorology, and Atmospheric Sciences

Bardeen Quad **Friday and Saturday 9 am-4 pm**

Have you ever wondered about tornadoes or how rainbows get their color? Are you looking for a college program to study weather or climate? Look no further than the Department of Climate, Meteorology, and Atmospheric Sciences! We will have interactive demos of weather phenomena, instruments that we use to study the weather, and weather balloon launches each day of EOH!

GlideControl

Digital Computer Laboratory Basement **Friday and Saturday 10 am-4 pm**

See the amazing physics behind modern parachute control systems in GlideControl, and learn about the ways that they can be used like air sea rescue and air drop systems.

Reimagining Cultivation & Agricultural Production Systems by Crop Sciences @ Illinois

National Center for Supercomputing Applications **Friday and Saturday 9 am-4 pm**

This exhibit explores how Crop Sciences is reimagining agricultural production systems by integrating plant biology, engineering, ecological design and the state-of-the-art computational and analytical technologies. Visitors will discover the remarkable natural diversity of crops such as soybean and maize through herbarium displays and visual demonstrations of plant architecture, seed traits, and growth habits. These biological differences shape how crops perform in different environments and production systems.

Physics Van

Loomis Laboratory 141 **Friday and Saturday, Shows at 10:00 am, 12:00 pm, and 2:00 pm**

By performing and explaining exciting physics demonstrations, we show our audiences that science is fun and worthwhile for people who wonder about why the world acts the way it does. We challenge kids' mental picture of what kind of people scientists are. We show them that as long as you want to learn and have fun, there's a world of physics waiting to be discovered! The Physics Van travels to elementary schools in Champaign-Urbana, IL and towns in the surrounding area.

Professor Panel

CIF 2018 **Friday 10 am-11 am**

The professor panel is an opportunity for current and prospective students to ask professors about their fields, how to get involved with research, and pursuing academia/graduate school.

Workshops in Python, CAD, and Web Design TBD

CAD: Engineering Hall 406B1 & 110A **Friday 11 am-12 pm**

Python: Engineering Hall 406B1 & 110A **Friday 12-1 pm**

Web Design: Engineering Hall 406B1 & 110A **Friday 1-2 pm**

Join us for a workshops in Python, CAD, and Web Design at the Engineering Hall cj Watch two rockets race between the bridges every hour! We designed and built 2 model rockets, and will race them between the bridges while teaching about the processes used to build rockets and the motors that power them.

Interactive Lego Design

CIF 2039 **Friday and Saturday 9:30 am-4 pm**

The Lego Design Lab is a place designed for students of all ages to engage in interactive lego building and coding. There will be 3 stations: Robot Maze, Machine Building, and Spider Obstacles.

I'm Admitted! Welcome to Grainger College of Engineering: Congratulations to our admitted first-year and transfer engineering students! Start your Engineering Open House visit at the Campus Instructional Facility (CIF) to receive a limited-edition gift while supplies last. Join us for a **Student Panel** from **10 am-11 am** in CIF Room 4025 to meet a Dean and connect with current students. On **Friday, April 10**, we will also have a **College Resource Fair** from **11 am-12 pm** at the monumental steps on the 1st floor.

SPECIAL EVENTS CONT

Illini Pullers

North Quad **Friday and Saturday 9 am-4 pm**

The Illini Pullers are an engineering design RSO that builds quarter-scale pulling tractors.

Keeping Our Rivers Green

Boneyard Creek, Bardeen Quad **Friday and Saturday: Every half hour starting 9:05 am from 9 am - 12 pm and 1 pm - 4 pm**

To keep our rivers green, we will be dyeing them green! We will inject a small amount of dye in our Boneyard Creek to learn how pollutants travel in rivers. With this knowledge we can avoid the risks that pollution brings to our rivers.

LabEscape

Digital Computing Lab 1262 **Scan the QR code on the right to view times and sign up!**

A terrible tragedy threatens the entire world - quantum tech is our only hope. Are YOU up to the challenge of the world's only science-based escape room??? The very latest chapter in the Prof. S. saga is Dark Matter Disaster. The year is 2058. Jupiter seemed like such a good idea at the time, until an unlikely accident sends it careening towards earth. **Reservations required: <https://labescape.org/eoh2026/>**



Mom's Weekend Design Competition

Loomis 136 **Saturday 11 am-2 pm**

Stop by with your mom or friends and compete in our design competition! Spend as long as you would like and show off your engineering intuition. You may bump into Christina Ernst (shebuildsrobots) here!

Hybrid Illinois Device for Research and Applications (HIDRA)

Nuclear Radiation Laboratory **Friday and Saturday, shows at 10-10:45 am, 11-11:45 am, 12-12:45 pm, 1-1:45 pm**

A one-of-a-kind research fusion reactor! The University's own hybrid tokamak/stellarator fusion device!

Sign up for a tour here: <https://tinyurl.com/eohhidratour>

Liquid Nitrogen Ice Cream

Loomis Laboratory

The Physics Van will be hosting live demos for Engineering Open House audience at Loomis Laboratory. After each show, members of the Physics Van will serve liquid nitrogen ice cream to guest while supplies last.

NovoPrint 3D-Printing Robot Arm

Sidney Lu Floor 1 **Friday and Saturday, 9 am - 4 pm**

A 3D printed, 3D printing robotic arm

Pacbot Competition

Nick Holonyak Micro & Nanotechnology Laboratory **Friday and Saturday 9 am-4 pm**

Pacman Robot Competition

Robobrawl Design, Print, Destroy! (D.P.D.)

Holonyak Micro & Nanotechnology Laboratory **Friday and Saturday, 9 am - 4 pm; finals at 3:30-4 pm**

Battlebots but small! Come by and see some awesome matches as competitors fight their combat robots to win the gold!

Rocket Races

Bardeen Quad **Friday and Saturday 9 am-4 pm every hour on the hour**

Watch two rockets race between the bridges every hour! We designed and built 2 model rockets, and will race them between the bridges while teaching about the processes used to build rockets and the motors that power them iSENS Lab, Siebel School of

Satellite Sightseeing

Bardeen Quad **Friday and Saturday 9 am-4 pm**

Take an "Earth-selfie" from a weather satellite in space! ISSRC's Satellite Sightseeing Exhibit interactively explores the concept of amateur satellite communication, and explores how even college students can receive and decode weather satellite imagery. Combining this with an interactive mobile antenna mount, we can sightsee the earth from many different angles!

Shark Tank

Transportation Building **Friday and Saturday 9 am-4 pm every hour on the hour**

Dive into a fast-paced challenge where teams brainstorm pitch their innovative solutions to an engineering problem.

Superhero Hospital

Everitt Laboratory 1302 **Friday and Saturday, 10-12 pm and 1-3 pm**

Visit the Superhero Hospital to learn how bioengineering can help heal our superheroes after they save the day! Check out all 5 of our activities and receive a special item at the end.

The Icing on the Machine: A Rube Goldberg Story

Sidney Lu Floor 1 **Friday and Saturday 9 am-4 pm every 30 minutes**

Watch a bakery-themed chain reaction end with a delicious reveal!

Step into a world of engineering confections! Our bakery-themed Rube Goldberg machine transforms pastries and coffee beans into a wonderfully clumsy chain reaction, all to accomplish one simple, sweet task: opening a box.

Alumni Coffee Chats

CIF 2018 **Friday 2 pm - 4 pm**

Students can get to know alumni in a more personal setting! This is a great opportunity to ask alums about their time at the U of I, the industries they work in, and how students can plan their lives after college.

Alumni Panel

CIF 2018 **Friday 11 am - 12 pm**

Come learn about different careers and projects from UIUC alumni!

Chai Town

Graziano Plaza **Friday 11-11:45 am**

Come listen to UIUC's famous South Asian acapella group!

Face Painting

Graziano Plaza **Friday 10:30 am-3 pm, Saturday 10 am-12:30 pm**

Make your imagination reality just like our exhibitors by visiting our face painting booth!

Welcome to the 104th Engineering Open House (EOH) at the University of Illinois Urbana–Champaign! We are incredibly excited to invite you all to the nation's largest student-run STEM (Science, Technology, Engineering, and Math) fair and to showcase how the Grainger College of Engineering is **Forging the Future**.

For EOH 2026, we chose the theme **Forging the Future** to highlight the central role that Grainger's engineers hold in creating and shaping the technologies that define tomorrow. With 210 exhibits, 19 special events, and 15 engineering startups, most of which were designed and built entirely by current students, we proudly display the creativity, innovation, and ambition of UIUC students and faculty. Through these efforts, we not only demonstrate the limitless possibilities within STEM, but also aim to inspire the next generation of engineers to imagine and build the future themselves.

Behind every exhibit, event, and showcase stands a community of individuals whose efforts begin long before the doors open. From exhibitors and volunteers to corporate sponsors, faculty, staff, judges, alumni, and Grainger administration, this event is driven by hard work and a shared belief in the value of hands-on innovation and student leadership. The constant support of all of those involved strengthens a tradition that has inspired engineers for over a century.

At the heart of this weekend is the EOH Central Committee, composed of 29 student leaders who dedicate nearly a full year to transforming ideas into reality. Balancing coursework, research, internships, and personal commitments while leading an entirely student-run event of this scale is no small undertaking, and we thank our incredible committee for their true dedication to making Engineering Open House not just possible, but exceptional.

This year, the EOH committee has worked tirelessly to implement novel ideas towards Forging the Future of EOH. 2026 marks the debut of the EOH mobile app, opening new pathways for visitors to engage with our event. In addition, Startup Showcase has grown larger than ever, promoting entrepreneurship in engineering through new collaborations with some of the most impactful startup success stories. With the introduction of EOH's Research Showcase, we recognize the significant contributions to cutting-edge science made by undergraduate researchers at Illinois. Finally, a new commitment to sustainability ensures that we forge thoughtfully, creating an event that will inspire scientists and engineers for generations to come.

We greatly appreciate each and every one of our visitors for their support year after year, from students, faculty, and community members here in Champaign–Urbana to those traveling from across the state and beyond. We'd also like to extend an additional warm welcome to those joining us for Mom's Weekend and invite all guests to discover the unique events and experiences of EOH. As you explore, we encourage you to ask questions and immerse yourself in the innovation around you. We look forward to Forging the Future together.

Aparna Kamath & Maddie Conrad
Co-Directors, Engineering Open House 2026



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Optical Transceiver Project	E104	19	SWE's Pirate Adventure	E198	18
Ornithopter	E23	15	The Icing on the Machine: A Rube Goldberg Story	E186	36
Pacbot Competition	E128	23	The Invisible Sound Scrubber (An Efficient Ultrasonic Cleaner)	E42	23
Painting with Light & Powering Fabrics	E163	27	The Marvelous Marshmallow Motion Machine	E194	36
PALYIM: Fossil Pollen Analysis using AI and HPC	E224	31	The Rheology Zoo	E69	18
Physics Outreach and Instruction through New Technologies (POINT) VR	E90	25	The Secret Society on Your Cellphone	E158	27
Physics Playground	E195	25	The shape of our rivers and coasts	E136	32
Physics Van	E182	25	Theta Tau Slime Gizmo	E205	36
Plasma Antenna	E6	37	Train Simulator	E18	32
Plasma Speaker	E12	37	Treehouse Pediatric	E94	23
Plasma Sterilization	E5	37	Triangle Marble Machine	E206	26
Plasma Toroid	E8	37	Troy Harbor Robots	E143	27
Plastics: Know Before You Throw	E147	27	VidaCloud - Intelligent Mattress Topper	E24	36
Power Generation in Doors	E25	35	Visual Nutrition	E219	31
Powerchair Computer Integration	E33	35	Visualization	E174	31
Product Design Laboratory	E200	38	WCS Dev Ada	E210	34
Project PETRA (Pharmaceutically Enhanced Tissue Regenerative Adhesives)	E77	22	Wearable GPS Mapping for Athletic Performance and Recovery	E44	16
Protecting our coasts from waves	E75	24	WiCYS: Enigma Machine	E211	34
Public Quantum Network	E125	26	Wind Tunnel	E138	24
Quantum Levitation Train	E164	27	Winnie Wheels: An Autonomous Delivery Robot System	E212	19
Radiation Scavenger Hunt/Self-Developed Geiger Counter	E7	37	Women in Aerospace	E208	16
Railroad Interlockings: Keeping Trains Safe	E19	32	Wonder of Rechargeable Li-ion Batteries	E159	27

3D Printed Racecars Atalanta: The Space Argonaut**Tau Beta Pi Engineering**

Come assemble your own 3D printed futuristic car and race against others to see who has the best design! These cars take advantage of a low friction surface, so no wheels are needed, and our volunteers can explain the physics behind how this works as well as the 3D modeling and printing that went into designing the car components you assemble.

Kid-Friendly
Cars
Physics

American Institute of Aeronautics and Astronautics Student Branch**American Institute of Aeronautics and Astronautics Student Branch**

Explore the hands-on technical projects of the American Institute of Aeronautics and Astronautics (AIAA) Student Branch at UIUC, where engineering concepts become real hardware and prototypes. We'll have drone prototypes, detailed 3D CAD models, and visual displays that showcase projects like Project Lumyn and other aerospace designs developed by student teams.

Future-Oriented
Planes
Sustainable

ASABE**Agricultural and Biological Engineering**

Come learn about how agriculture and biology impact the world around you and how we are innovating every day for a better world.

Agriculture
Biology
Environment

Bounce. Fizz. React.**X-Time at UIUC**

Create your own bouncy ball and bring Frankenstein's Hand to life as you explore exciting chemical reactions through fun, hands-on experiments!

Chemistry
Kid-Friendly
Physics

Build up to Blast-Off**Illinois Space Society**

How do hybrid rockets adjust their power? Watch a balloon inflate on its own as yeast and sugar react to produce carbon dioxide. By changing how much "fuel" goes into the reaction, you'll see how different mixtures create different amounts of gas. This hands-on experiment shows how hybrid rocket engines can increase or decrease thrust by adjusting propellant flow. Make a prediction, test it, and see the results in real time.

Outer-Space
Future-Oriented
Kid-Friendly

ChBE GSAC**GSAC**

At this interactive exhibit, discover how chemical engineers forge the future by controlling how energy is stored and released. Split water into hydrogen and oxygen to store energy, then recombine it to power a fan, mirroring the same technology that runs hydrogen buses on campus. Explore a second station where invisible ultraviolet light becomes brilliant color through glowing molecules, revealing how energy can transform into light. From moving buses to glowing materials, see how chemistry becomes real-world technology through engineering.

Chemistry
Sustainable
Future-Oriented

Ctrl-Z Robotics**Ctrl-Z/FIRST Illini Robotics**

We are Ctrl-Z, a robotics team in Champaign County and 2023 World Championship Winners! Come see our 2026 competition robot as well as our frisbee shooting robot!

Robotics
Kid-Friendly
Programming

Couch Car**American Society of Mechanical Engineers**

You've seen a couch, you've seen a car, get ready for the couch car!

Cars
Mechanics
Kid-Friendly

Dig it!**Mechanical Science and Engineering Department**

Take control of a construction machine and make it lift, swing, and dig!

Construction
Mechanics
Kid-Friendly

Scario**Biomedical Engineering Society**

Scario helps you reduce scarring before you scar

Biology
Future-Oriented
Molecular Scale

GlideControl

Aerospace Engineering

See the amazing physics behind modern parachute control systems in GlideControl, and learn about the ways that they can be used like air sea rescue and air drop systems.

Robotics
Programming
Mechanics

Go With the Sustainable Flow!

American Institute of Chemical Engineers (AIChE)

Come explore how chemistry and engineering come together to build a cleaner, more sustainable future! UIUC's chapter of the American Institute of Chemical Engineers (AIChE) is excited to showcase a series of interactive projects demonstrating the vital role chemical engineers play in developing energy solutions that are sustainable. With multiple hands-on projects, students of all ages can stop by, experiment, and discover how chemical engineering powers the world.

Chemistry
Sustainable
Older student
friendly

IHands-on Aerospace Manufacturing

Student Aircraft Builders

From Raw Materials to Liftoff: Experience Aerospace Manufacturing

Planes
Outer-Space
Design Team

Illinois Lunabotics

Illinois Robotics in Space

Mission MOON CANDY! Learn what it means to be a space engineer, dig out some eggs and candy from the surface of the planet, and enjoy the sweet rewards :)

Robotics
Outer-Space
Design Team

Keeping our Rivers Green

IWRA

To keep our rivers green, we will be dyeing them green! We will inject a small amount of dye in our Boneyard Creek to learn how pollutants travel in rivers. With this knowledge we can avoid the risks that pollution brings to our rivers.

Water
Environment
Environment

Laboratory for Advanced Space Systems at Illinois

Laboratory for Advanced Space Systems at Illinois

The Laboratory for Advanced Space Systems at Illinois is the premier satellite design and testing facility in The Grainger College of Engineering at the University of Illinois Urbana Champaign. Designed to support the full life cycle of small satellite missions, LASSI offers a professional, well-equipped environment for CubeSat and space hardware development, from early design to flight readiness.

Outer-Space
Research
Smart Technology

LRI's Rocketry Demo!

Liquid Rocketry at Illinois

Igniting to the stars! Intended audience: younger children

Electronics
Robotics
Outer-Space

Mars Sand Castles

Illinois Space Society

Can humans really live on Mars? Before astronauts arrive, robots will need to dig, move, and shape Martian soil, called regolith, to build safe habitats. Step into the role of a planetary engineer by using kinetic sand as simulated Mars regolith to design your own Martian structures. Drive small rovers, excavate material, and experience the challenges of building on another planet using robotic tools.

Outer-Space
Future-Oriented
Kid-Friendly

Motor Testing Technology

Illinois Space Society

Can you provide more power than a rocket motor? Testing a rocket motor requires a lot of detailed technology. Come try out that technology for yourself using our testing stand that can handle loads up to 400N of force!

Mechanics
Electronics
Physics

NSBE RC Spider Car

National Society of Black Engineers

A hypermobile remote-controlled spider car! Jump, Climb, and Shot Action! NSBE RC

Cars
Robotics
Electronics

Ornithopter

American Society of Mechanical Engineers

When Robotics Grows Wings. Watch a bird-inspired ornithopter robot flap its wings and fly using motion similar to real birds. Unlike traditional drones, this robot relies on flapping wings to generate lift and movement. Visitors can see the ornithopter in action and learn how engineers use bio-inspired design to study flight and build new types of flying robots.

Robotics
Future-Oriented
Mechanics

Rocket Races

Illinois Space Society

Watch two rockets race between the bridges every hour! We designed and built 2 model rockets, and will race them between the bridges while teaching about the processes used to build rockets and the motors that power them

Mechanics
Outer-Space
Good for older
students

Satellite Sightseeing

Illinois Space Society

Take an "Earth-selfie" from a weather satellite in space! ISSRC's Satellite Sightseeing Exhibit interactively explores the concept of amateur satellite communication, and explores how even college students can receive and decode weather satellite imagery. Combining this with an interactive mobile antenna mount, we can sightsee the earth from many different angles!

Electronics
Good for older
students
Weather

Science of Cotton Candy

Material Advantage

Watch sugar transform into fluffy cotton candy right before your eyes! Our exhibitors will spin fresh cotton candy on-site, explain the simple science behind how it's made, and hand out samples to visitors. Stop by to see the process up close and enjoy a sweet treat.

Food
Chemistry
Kid-Friendly

Soap-Powered Propulsion

Aerospace Engineering

Add a single drop of soap and watch a paper boat zoom across the water. In this hands-on exhibit, visitors discover how changing surface tension creates motion, showing how propulsion can happen even without engines or moving parts.

Outer-Space
Future-Oriented
Physics

Sticky Situation, Lunar Dust Mitigation

Illinois Space Society

Why does Moon dust stick to everything? Charge a balloon and watch simulated lunar dust cling instantly, showing how electrostatic charging makes real Moon dust stick to spacesuits, tools, and habitats. Then explore another challenge lunar dust creates: clogged systems. Using a clear tube filled with "dust" particles, see how blockages form and test a hands-on removal method to keep systems flowing. This activity shows why managing lunar dust is a major challenge for future Moon missions.

Outer-Space
Future-Oriented
Physics

Strandbeest

Society for Engineering Mechanics

The Strandbeest, Dutch for "Beach Animal," combines art and engineering. This project combines elegant, complex, dynamical design with simple materials and a simple mission: to synthesize a big walking thing.

Art & Design
Mechanics
Sustainable

Wearable GPS Mapping for Athletic Performance and Recovery

BMES

Come explore how to optimize your sports training and workouts!

Smart Technology
Design Team
Electronics

Women in Aerospace

Women in Aerospace

Build your own balloon rocket and watch it fly! Thread a string through a straw and pull it tight between two points to make your rocket's path. Blow up a balloon (but don't tie it), tape it to the straw, and let go to launch. The escaping air pushes the balloon forward, sending your rocket zooming down the string. Take your rocket home and keep experimenting for more high-flying fun!

Outer-Space
Physics
Future-Oriented

COORDINATED SCIENCE LABORATORY

EXHIBITS

Center for Autonomy Robotics Showcase

Coordinated Science Laboratory (CSL Studio)

Exhibit will demonstrate robotics projects in Center for Autonomy Labs for participants to observe.

Robotics
Future-Oriented
Research

DIGITAL COMPUTER LABORATORY (DCL)

ATLAS Peptide Design Lab

ATLAS

Come to our exhibit to learn about Antimicrobial Peptides (AMP), and design your own AMP!

Chemistry
Biology
Programming

Central Illinois Interurban Railway

Coordinated Science Laboratory (CSL Studio)

Future of Electrified Commuter Transportation: ITE showcases a small-scale battery-powered train that visitors can operate, which demonstrates how cities and campuses in Central Illinois can be connected through clean, comfortable, and energy-efficient transit. Additionally, visitors can map out the route that they took to EOH on a map, which will be used to optimize a route for this proposed train line."

Sustainable
Future-Oriented
Kid-Friendly

Drone Umbrella

American Society of Mechanical Engineers

Drone Umbrella: Rain Protection of the Future

Smart Technology
Weather
Future-Oriented

Engineering for an Accessible World

MedLaunch UIUC

How can we make our community a more accessible place through engineering? Explore six exciting projects that do just that – from a tactile board game to a custom device for a blind swimmer! While you're at it, experience the human-centered design process for yourself and engineer your own accessible stationery to bring home!

Design Team
Kid-Friendly
Health & Medicine

Lab Escape

Paul's Kwiat Group/LabEscape

World-renowned quantum physicist Professor Alberta Pauline Schrodenberg is quarantine and desperately needs your help - the fate and security of the entire world hang in the balance. You'll have to search her lab, solve mind-blowing puzzles to reveal clues, and hopefully find a way to complete your mission!

Art & Design
Physics
Future-Oriented

Make Your Own Lava Lamps

Alpha Chi Sigma

Watch science bubble to life!

Chemistry
Kid-Friendly

Mystery Compound Chemical Investigation

Reaching & Educating America's Chemists of Tomorrow

You are a crime scene investigator who has been assigned the task of identifying the contents of a vial found at the scene of a murder. The vial is suspected to be a poison that was given to the victim in his drink. Various white powders were found in the car of the suspected killer. Your job is to analyze one of the white powders found in the car of the suspected killer to determine the composition of the poison. Each child will be given a compound and complete a series of experiments, along with their senses, to determine which compound they have.

Chemistry
Kid-Friendly
Good for older
students

SWE's Pirate Adventure

[Society of Women Engineers](#)

Ahoy! Come join the Society of Women Engineers on our pirate adventure as we build boats to sail the seven seas, design catapults, and learn to communicate through morse code to lead us to treasure.

Kid-Friendly
Boats
Construction

The Rheology Zoo

[The Rheology Zoo](#)

It's a fluid... It's a solid... It's both? Everyday materials such as honey, toothpaste, creams, shampoo, and peanut butter have some very unexpected behaviors that are carefully engineered for our benefit and comfort. By squeezing, mixing, bouncing, and stretching these materials, visitors can uncover the physics of rheology and learn how it shapes everything from our most dependable products to some of the most exciting future technologies.

Research
Mechanics
Chemistry

ELECTRICAL AND COMPUTER ENGINEERING BUILDING (ECEB)

Biomechanic Robotic Hand

[Individual](#)

The Bionic Reach: Master the Machine

Robotics
Prosthetics
Electronics

ECESAC Booth

[ECESAC](#)

ECESAC invites you to dabble in electrical engineering by making paper circuits! ECE student representatives will be available to answer any prospective student questions as well as showcase a student's project!

Electronics
Kid-Friendly
Smart Technology

Illini EVConcept Showcase

[Illini EVConcept](#)

Come join the Illini EVConcept autonomous team on trying to beat our agent in driving in a simulated environment.

Programming
Cars
Robotics

Illini Robomaster

[Illini Robomaster](#)

Please keep safety distance from the robot unless you are the next to try.

Robotics
Mechanics
Programming

Illini Vex Robotics: Software R&D

[Illini VEX Robotics](#)

See what's up and coming in the field of robotics!

Robotics
Research
Programming

InSPIRE's Dual Axis Photovoltaic System and Modular Rescue Drone

[InSPIRE \(The Institute for Scientific Progress, Innovation, Research, and Edu-Training\)](#)

Learn how InSPIRE combines a dual-axis solar tracking system with a modular rescue drone to deliver sustainable, off-grid emergency response. From renewable energy to real-world humanitarian applications, see applied engineering in action!

Sustainable
Electronics
Mechanics

IVR R&D Mech

[Illini Vex Robotics](#)

Can you put the shapes in the boxes with the arm?

Robotics
Electronics
Kid-Friendly

Information Trust Institute (ITI)

[Grainger](#)

Information Trust Institute (ITI): Securing the Systems that Power Our World
Explore how researchers at the Information Trust Institute are protecting critical infrastructure—from the electric grid and water systems to transportation and healthcare. Learn how cybersecurity, engineering, and artificial intelligence come together to keep essential systems safe, resilient, and trustworthy. Visitors can interact with real-world demonstrations that show how cyber-physical systems are secured, test their own detection skills in simulated environments, and see how future engineers are being trained to defend the technologies we all depend on.

Kid-Friendly
Electronics
Future-Oriented

ISSA Software Tech Team

Illinois Semiconductor Student Alliance

Design a Chip. Beat the Board.

Step into the role of a chip designer and see how your choices impact speed, heat, and reliability. This interactive exhibit lets visitors experiment, test their designs, and compete for the top spot on the leaderboard!

Electronics
Smart Technology
Future-Orient

Market in a Minute

Institute of Electrical and Electronic Engineers (IEEE)

How fast can a computer predict the next minute of the market? This exhibit shows a hardware-accelerated computer running over 100,000 simulations to predict how a stock may move over the next minute. The system uses custom hardware and a small machine learning model to produce a final predicted range, demonstrating how probability and computing power are used to make short-term forecasts.

Electronics
Programming
Good for older
students

Optical Transceiver Project

Illinois Semiconductor Student alliance (ISSA)

Talk to your friends wirelessly using laser light!

Smart Technology
Electronics
Physics

Solar Cell LBIC Mapping

Korean-American Scientists and Engineers Association (KSEA)

What if you could see how a solar cell works—one tiny spot at a time?

Electronics
Sustainable
Research

Winnie Wheels: An Autonomous Delivery Robot System

Women in ECE (WECE)

Delivering the Future on Autonomous Wheels

Robotics
Electronics
Smart Technology

CATERPILLAR®

AccessiHear**Biomedical Engineering Society**

Innovation means nothing if it is inaccessible. By creating an at-home DIY hearing aid kit, our exhibit explores how biomedical engineering can bridge this gap by making medical device technology more affordable and customizable. In doing so, we hope to highlight the future of medical devices: accessible, affordable, and designed for everyone.

Prosthetics
Health & Medicine
Biology

AirEmbrace**i-MADE**

Step up to our interactive exhibit and see how pumps, valves, and pressure work together to create adjustable support in wearable medical devices. Try it yourself and discover how simple engineering ideas can lead to innovative solutions.

Health & Medicine
Electronics
Kid-Friendly

Build-A-Bridge - Engineers without Borders**Engineers without Borders**

Select your materials on a budget, design, build and see how your bridge holds up against our challenges!

Construction
Design Team
Physics

Caff-fold**Biomedical Engineering Society**

Watch science bubble to life!

Health & Medicine
Biology
Chemistry

Cancer Center at Illinois**Cancer Center at Illinois and Cancer Center at Illinois Student Organization**

The Cancer Center at Illinois will host two interactive Engineering Open House tables highlighting cancer engineering and technology-driven approaches to cancer detection and treatment. One table will feature a hands-on micro:bit activity that models targeted cancer therapy, where participants interact with sensors and LEDs to explore how engineers design treatments that precisely target cancer cells while minimizing damage to healthy cells. A second table will showcase cancer imaging and prevention through a quantum dots lightbox demonstration, fluorescent "Future Scientist" coloring, and UV sun-safety bracelet take-home activities.

Health & Medicine
DNA
Kid-Friendly

Devices for Hand/Wrist Mobility Impairment**Biomedical Engineering Society**

Help us create a world where anyone can do anything. Come try out handle enlargers and other accessibility devices that help make daily tasks easier for people with mobility impairments.

Weather
Kid-Friendly
Electronics

Department of Climate, Meteorology, and Atmospheric Sciences**Department of Climate, Meteorology, and Atmospheric Sciences**

Have you ever wondered about tornadoes or how rainbows get their color? Are you looking for a college program to study weather or climate? Look no further than the Department of Climate, Meteorology, and Atmospheric Sciences! We will have interactive demos of weather phenomena, instruments that we use to study the weather, and weather balloon launches each day of EOH!

Health & Medicine
DNA
Kid-Friendly

e-NABLE Prosthetic Hands**e-NABLE Prosthetics UIUC**

e-NABLE is an online global community of "Digital Humanitarian" volunteers from all over the world who are using their 3D printers to make free and low-cost prosthetic upper limb devices for children and adults in need. The open-source designs created by e-NABLE Volunteers help those who were born missing their fingers and hands or who have lost them due to war, natural disaster, illness or accidents.

Prosthetics
Biology
Kid-Friendly

Enceflow: Low-Cost Real-Time Neurofeedback of Mental States**i-MADE (Illinois Medical Advancements through Design and Engineering)**

The Enceflow Headband understands your mind. Using real-time EEG signals, it tracks shifting mental states such as attention, calmness, and stress. See how your mind moves and stays in the zone as you navigate through various tasks!

Electronics
Health & Medicine
Smart Technology

Hart Attack Detection: A Low Cost method for Continuous ECG Monitoring

iMADE

Watch the breakdown of how your heart beats every day. Heart Attack Detection invites you to experience a heart monitoring system using real-time ECG sensors and an Arduino-based system. Visitors can see their heart's electrical activity displayed live on screen. Watch as raw signals are filtered, analyzed, and transformed into meaningful patterns that help detect abnormalities linked to heart attacks.

Health & Medicine
Electronics
Programming

Hand Therapy Glove

Biomedical Engineering Society

What if a glove could help your hands move, stretch, and get stronger on their own? Meet the Hand Therapy Glove, a wearable robotic device that turns rehabilitation into an interactive experience. Inspired by real challenges faced by people recovering from injury or neurological conditions, this glove uses actuators, sensors, and smart controls to gently move your fingers, assist your motion, or even challenge you with resistance. Visitors can see the mechanics in action and explore how engineering, biomechanics, and healthcare come together to improve quality of life.

Health & Medicine
Mechanics
Robotics

Clip-on Inhaler Device for better management and Monitoring of Asthma

BMES

Learn about a new clip-on device that will help track inhaler usage!

Electronics
Health & Medicine
Smart Technology

Hydrogel Drug Delivery for Tumor Resection

Biomedical Engineering Society

Come check out our exhibit to see how a smart hydrogel can deliver drugs directly to the surgical site after tumor removal- right where lingering cancer cells can hide. Stop by to learn how this simple treatment could help prevent recurrence and improve recovery.

Health & Medicine
Molecular Scale
Research

Hydrogels for Therapeutic Delivery

Wang Lab

Common ingredients like gelatin, which can be used to make jello, can also be used in the treatment of deadly diseases, including cancer. In our exhibit, we will demonstrate how hydrogels can be used for therapeutic delivery!

Research
Health & Medicine
Chemistry

Treehouse Pediatric

Illinois Medical Advancements through Design and Engineering

Our team is developing a clinician-focused mobile app that streamlines patient tracking and helps therapists organize session activities with greater efficiency and clarity.

Smart Technology
Health & Medicine
Programming

Intragastric Balloon Therapy

Illinois Medical Advancements in Design and Engineering

Obesity affects over 40% of adults in the U.S., but many weight-loss treatments are too expensive to access. The intragastric balloon therapy helps people feel full by placing a balloon in the stomach, but it can cost over \$1,500. We're creating a low-cost, minimally invasive, self-sealing balloon using female condoms, making the treatment safer and more affordable. Our design lowers the cost to around \$10, and can help more people get the care they need.

Health & Medicine
Prosthetics
Biology

MindScents

BMES

MindScents measures emotional responses to basic scents using brain signals, then builds quantitative models to design personalized fragrance profiles. Come watch how scent shapes your emotion!

Research
Smart Technology
Data Science

RAVAGE: Robotic Autonomous Vision Adaptive Ground Engine

Tau Beta Pi: The Engineering Honor Society

"Meet SCOUT, the next generation of quadruped robots! Agile and intelligent, SCOUT is designed to navigate obstacles, explore environments, and interact with humans in real time. Watch as SCOUT demonstrates advanced mobility, obstacle detection, and problem-solving skills, bringing robotics to life with every step!"

Robotics
Programming
Mechanics

ModuSize Socket

BMES

Prosthetic sockets must fit comfortably and securely, but human limbs are rarely perfectly cylindrical. Traditional adjustable sockets assume that a human limb is almost cylindrical, often relying on a single inflatable bladder. This can lead to uneven pressure and discomfort for users with irregular limb shapes or daily volume changes, causing excessive bruising. Our project explores the potential of an adaptive prosthetic socket that uses a foam sleeve and multiple small inflatable bladders distributed around the socket instead of one large bladder. This localized pneumatic approach allows fine-tuned adjustment at specific regions, improving comfort and demonstrating how engineering can better adapt to the human body.

Biology
Prosthetics
Smart Technology

Mouse Integration Glasses

MediMech & Hourglass Medical

This exhibit features hands-free glasses that act as a mouse, and can be connected via any display to control your screen. These glasses can be used in the medical field by surgeons or for people with disabilities. "Control the screen, no hands required."

Health & Medicine
Future-Oriented
Electronics

Musa

Biomedical Engineering Society

Trash to treasure: food-waste-based sanitary pads on a mission to end period poverty and save the environment.

Environment
Sustainable
Health & Medicine

Neurogame

BMES

Play a video game with your brain and see your brainwaves in action!

Electronics
Programming
Kid-Friendly

NeuroGlove

BMES

The NeuroGlove is a glove that reads signals from your nerves and turns them into movement. This technology can help people regain hand control and interact easily with the world around them. Visit our exhibit to see how it works and try a hands-on demo.

Robotics
Health & Medicine
Prosthetics

NeuroTech - Decoding the Brain

NeuroTech @ UIUC

Want to see what your thoughts look like? Drop by our booth to learn more about how brain data is processed and how it can be used to develop algorithms and models to improve focus, recognize emotion, upgrade neuroprosthetics, or even customize Spotify playlists! Come learn more about the brain, neurotechnology, and also gain the chance to see how EEGs work and virtually explore neural pathways!

Programming
Research
Health & Medicine

Project PETRA (Pharmaceutically Enhanced Tissue Regenerative Adhesives)

i-MADE

Healing, Powered by Nature. Did you know the same natural material used to make boba pearls can also help heal wounds? Our exhibit explores how sodium alginate, a plant-derived material commonly found in boba, is used to create an all-natural, biodegradable hydrogel for wound care. Learn how this familiar (not to mention delicious!) ingredient can safely replace synthetic wound dressings while supporting effective healing.

Health & Medicine
Biology
Molecular Scale

SEAL: Temporary Hemostasis using Biocompatible Hydrogels

BMES

Severe bleeding can become life-threatening within minutes. This exhibit shows why fast first aid matters and how chemically reacting materials can be engineered to quickly expand, absorb fluid, and apply pressure, helping to buy critical time until medical care arrives. "Every second counts!"

Biology
Health & Medicine
Chemistry

Fueling the Future: From Chemistry to Cars

GSAC

Discover how chemistry powers clean transportation through hands-on demonstrations and guided activities. Visitors will explore how electricity flows through circuits using a copper tape maze, observe how redox reactions transfer electrons to generate energy, and watch a mini hydrogen fuel cell convert chemical energy into electricity.

Chemistry
Sustainable
Future-Oriented

EVERITT LABORATORY CONT

EXHIBITS

Stealth - A Mind For Your Muscles

Illinois Medical Advancements in Design and Engineering

Discover how engineers can measure muscle fatigue in real time using wearable technology. In this exhibit, visitors can try a sensor while performing bicep curls and watch as their muscle fatigue is detected live on a screen. By combining muscle activity signals and motion data, the system identifies when a muscle begins to tire, even before a person begins to feel it, preventing potential injury.

Smart Technology
Health & Medicine
Biology

Robotic Hand

BMES

Interactive Robotic Hand

Robotics
Smart Technology
Electronics

Stride Metrix

BMES

Real-time gait and walking rehabilitation metrics.

Health & Medicine
Mechanics
Programming

Superhero Hospital

Engineering Ambassadors (ENG 411) and Cosplay for Science

Visit the Superhero Hospital to learn how bioengineering can help heal our superheroes after they save the day! Check out all 5 of our activities and receive a special item after.

Health & Medicine
Good for older
students
Kid-Friendly

The Invisible Sound Scrubber (An Efficient Ultrasonic Cleaner)

Biomedical Engineering Society (BMES)

The Invisible Sound Scrubber

Electronics
Health & Medicine
Smart Technology

NICK HOLONYAK MICRO & NANOTECHNOLOGY LABORATORY

Holonyak Micro Nano Technology Lab

Interdisciplinary Research Unit

The Holonyak Micro and Nano technology Laboratory exhibit demonstrates how the power of the sun can be used to make patterns on special paper. Similar techniques are used to make patterns on harder materials using UV light and photosensitive chemicals called photoresist. These patterned materials form the building blocks of everyday electronics including LEDs, solar cells, computers, and cell phones. Because these devices are at the micro or even the nanometer scale, they must be made in special environments called cleanrooms that control temperature, humidity, light, room pressure, and particles. Special clothing is also required to work in cleanrooms including hoods, suits, boots, and gloves that protect these delicate structures from the particles we generate just by moving. We will have demonstrations of sun/UV light patterning on paper and posters showing microfabrication processing.

Electronics
Molecular Scale
Smart Technology

Le Louvre Heist

Illinois MicroTech

Discover how electromechanical sensors impact your everyday lives. Have a go at re-enacting the theft of the priceless jewels from the vaults of Le Louvre with an interactive sensor based escape game! Go home with one of the "stolen" treasures, a prize to prove you cracked the vault (all 100% legal, we promise).

Smart Technology
Mechanics
Electronics

Learn about Light with iOptics

iOptics

Explore the properties of light with hands-on demonstrations, including likely the largest lens you've ever seen!

Physics
Future-Oriented
Good for older
students

Pacbot Competition

iRobotics

Pacman Robot Competition

Robotics
Electronics
Programming

Robobrawl Design, Print, Destroy! (D.P.D.)

Robobrawl Committee

Battlebots but small! Come by and see some awesome matches as competitors fight their combat robots to win the gold!

Robotics
Mechanics
Electronics

<p>Fluid Mechanics 101 IWRA</p>	<p>Here, at the Hydrosystems lab, water is what we are all about. But sometimes, we have to go back to the basics. Come to this exhibit to explore the fundamental properties of fluids and how they flow through simple experiments.</p>	<p>Kid-Friendly Mechanics Environment</p>
<p>Fluidized Sand IWRA</p>	<p>We can walk on sand, but we can't walk on water. Sand is a solid then, right? Engineers think that way, since they put our buildings on top of it. However, in some weird cases, sand can behave like a fluid, bringing destruction to all kinds of things engineers build.</p>	<p>Environment Construction Mechanics</p>
<p>Groundwater Flow Model IWRA</p>	<p>You can see how water flows underneath the Earth's surface. Just as water moves on the surface through rivers, lakes, and oceans, it is also constantly moving below the surface. We explore flow patterns, the travel of pollutants, and how human interaction affects all of it.</p>	<p>Water Environment Geology</p>
<p>Hazards of Modern Spillways IWRA</p>	<p>See firsthand how gear ratios change the way a machine moves. In this demonstration, you can control a Pirate or Trojan Horse robot and swap between different gear assemblies to observe the mechanical trade-off between power and velocity. Experience how high-torque gearing allows a robot to carry more weight, while high-speed setups optimize it for a straightaway sprint across the arena.</p>	<p>Water Environment Weather</p>
<p>Interactive Water Table IWRA</p>	<p>This exhibit allows kids understand how water moves in channels and how this flow of water can change by the use of gates</p>	<p>Water Environment Weather</p>
<p>Hydrology Sandbox IWRA</p>	<p>This educational sandbox + flow table model is all about how the shape of the land influences hydrological processes. We can design a sandy landscape to increase or decrease surface runoff, ponding areas, and infiltration rates to recharge the underlying aquifers.</p>	<p>Water Environment Research</p>
<p>Little Big River IWRA</p>	<p>Real rivers are wavy. Our unique meandering flume will allow you to explore the hydrodynamics of big rivers. We will find out about the impact of river bends on human activities, from how we navigate through them to how sedimentation and erosion affect our infrastructure.</p>	<p>Environment Water Kid-Friendly</p>
<p>Protecting our Coasts from Waves Hydrosystems Lab Hydrosystems lab.</p>	<p></p>	<p>Water Environment Sustainable</p>
<p>Wind Tunnel IWRA</p>	<p>From the efficiency of cars to the safety of structures, air flow has influence over many aspects of our lives. However, flows are very hard to predict. So, we use wind tunnels: putting objects in a wind tunnel allows us, through some clever tricks, to see how air moves.</p>	<p>Physics Cars Mechanics</p>

AstroTech

Tau Beta Pi

UIUC's First Interactive Planetarium: Explore the Stars like Never Before!

Outer-Space
Physics
Future-Oriented

Blast & Bubble Discovery

X-Time at UIUC

Create mysterious fog bubbles and send mini rockets blasting off as you explore the power of air, pressure, and motion through incredible hands-on experiments.

Chemistry
Kid-Friendly
Physics

Electron Transitions

IQUIST

The Electron Transitions demo was created by The Wonders of Quantum Physics at The University of Wisconsin-Madison. This activity challenges students to determine which light source makes the Glow in the Dark stars shine the brightest.

Electronics
Chemistry
Physics

Levitation Demo - Meissner Effect

Illinois Quantum Information Science and Technology Center

Quantum physics is all around us-you just have to know where to look! Come explore hands-on activities of quantum levitation using liquid nitrogen and a superconducting hockey puck, expect a cool experience!

Physics
Future-Oriented
Good for older students

Liquid Nitrogen Ice Cream

The Physics Van

The Physics van will be hosting live demos for Engineering Open House audience at Loomis Laboratory. After each show, members of the Physics Van will serve liquid nitrogen ice cream to guest while supplies last.

Future-Oriented
Kid-Friendly
Physics

Mechanical Waves

IQUIST

Quantum physics is all around us-you just have to know where to look! Come explore the Mechanical Waves demo by Arbor Scientific. Come check out the unique patterns formed at different resonance frequencies.

Future-Oriented
Physics
Mechanics

Physics Outreach and Instruction through New Technologies (POINT) VR

Illinois Center for Advanced Studies of the Universe

Step into Albert Einstein's shoes and discover general relativity through our immersive virtual reality exhibit, created by UIUC physicists. Explore how gravity shapes space and time in a visually stunning and interactive experience. Using virtual reality headsets leads to a 1/4000 risk of seizures due to flashing lights. Users will be warned before use that they should not participate if they have any history of epilepsy or seizures. There is also a risk of walking into objects that the user cannot see, but this risk will be mitigated by having safe, designated play zones that are free of objects and trained volunteers available to assist participants in the headsets.

Physics
Outer-Space
Smart Technology

Physics Playground

Society for Women in Physics

Come see fun physics demonstrations! We will provide short explanations of the physics concepts behind each demonstration.

Physics
Kid-Friendly
Water

Public Quantum Network

IQUIST

Interact with an on-campus node of the Public Quantum Network, where you can make measurements on quantum particles. See for yourself how quantum particles can "affect" each other no matter the distance between them, by doing the experiment for which the Nobel Prize in physics was awarded in 2022!

Physics
Kid-Friendly
Future-Oriented

Society of Physics Students

Society of Physics Students

Witness the laws of physics in action! The Society of Physics Students is presenting many demonstrations designed to show you the power and wonder of physics!

Physics
Mechanics
Research

Physics Van**Physics Van, Department of Physics**

By performing and explaining exciting physics demonstrations, we show our audiences that science is fun and worthwhile for people who wonder about why the world acts the way it does. We challenge kids' mental picture of what kind of people scientists are. We show them that as long as you want to learn and have fun, there's a world of physics waiting to be discovered!

The Physics Van travels to elementary schools in Champaign-Urbana, IL and towns in the surrounding area. We have been as far as New Mexico, where we collaborated in science outreach with Los Alamos National Labs, Jacksonville, FL, where we performed for area schools and consulted with an emerging outreach program, and Snowmass, CO, where we performed at the Snowmass Science Weekend. A traveling science show which makes physics fun and challenges ideas about what science is and who does it.

Physics
Kid-Friendly
Good for older
students

Spectrum Carousel of Gases**IQUIST**

The Carousel Spectrum of Gases shows the emission spectra produced by samples of hot gas such as neon, argon, and hydrogen! Come check out the different colors and patterns created by the gases.

Chemistry
Environment
Physics

Triangle Marble Machine**Triangle Fraternity**

The Triangle Marble Machine is an interactive marble track designed to showcase fundamental conservation laws in physics.

Physics
Art & Design
Programming

Sound Waves and Magnetism**Materials Research Laboratory**

How sound waves work.

Physics
Kid-Friendly
Research

MECHANICAL ENGINEERING LABORATORY

Novel Mobile Robots Lab**Novel Mobile Robots Lab**

The Novel Mobile Robots lab (NMbL) develops robots that walk, hop, roll, and more! From legged control and jumping to balance and mechanism design, come see robots move beyond your imagination.

Robotics
Mechanics
Future-Oriented

MATERIALS RESEARCH LAB (Friday)/LOOMIS (Saturday)

Glow in the Dark Laser how**Illinois MRSEC & MRL**

Use code to design a shape that a laser will draw on a fluorescent board.

Mechanics
Electronics
Programming

Solar Energy and Circuits**Illinois MRSEC & Materials Research Laboratory**

How solar cell/coin battery works.

Electronics
Chemistry
Kid-Friendly

Materials and Lights**Illinois MRSEC**

What's inside? Discover Materials Science with I-MRSEC.

Research
Chemistry
Kid-Friendly

Moire Pattern**Illinois MRSEC**

Moire pattern.

Kid-Friendly
Research
Physics

MATERIALS RESEARCH LABORATORY

EXHIBITS

Airing It Out!

MRL Central Research Facilities

Examples of the effects of vacuum on everyday life.

Kid-Friendly
Outer-Space
Physics

Micro Wonders: Nanoscribe 3D Printing and Focused Ion Beam Etching

MRL Central Research Facilities

Embark on a journey where imagination meets innovations: explore Nanoscribe 3D printer and Focused ion beam technology at MRL. Unleash your creativity, choose a picture or word and watch it magically come to life as we etch it onto a human hair or a silicon wafer. Take home a stunning scanning electron microscope image of your microscopic masterpiece (optional) as a souvenir of this unforgettable experience.

Kid-Friendly
Physics
Smart Technology

Optical properties of matter

MRL Central Research Facilities

Discover the intriguing ways that light interacts with objects and how it can be used to look into the internal structure of nature

Kid-Friendly
Physics
Research

The Secret Society on Your Cellphone

MRL Central Research Facilities

Would you ever consider putting your face on a toilet seat? If you think that sounds crazy, think about the last time you talked on your cellphone.. Did you know that you cellphone can have up to 10X MORE bacteria than a public toilet seat?! Come take a close up look at the “secret society” that lives closer to you than you may think.

Biology
Kid-Friendly
Health & Medicine

Wonder of Rechargeable Li-ion Batteries

MRL Central Research Facilities

The overall acceptance and applications of lithium ion batteries including its sustainability

Environment
Sustainable
Research

MATERIALS SCIENCE AND ENGINEERING BUILDING (MSEB)

Bioplastics

Materials Science and Engineering 183

Come discover how you can make plastic from milk!

Sustainable
Chemistry
Molecular State

Build. Snap. Go!

MechSE Makerworks

Build, decorate, and race your own customized rubber band car! Learn about how cars work with 3D printed models from the Jackson Innovation Studio.

Mechanics
Cars
Kid-Friendly

Liquid Metal Magic

Class project for MSE 183

A metal that can melt in your hand: Gallium! Come explore what makes Gallium unique and see it in action!

Chemistry
Molecular Scale
Kid-Friendly

Oobleck!

Keramos Honors Fraternity

Have you ever heard of liquid that turns solid when you punch it? Ever wondered why ketchup and honey flow faster when you squeeze them? Explore the world of Non-Newtonian fluids with Oobleck!

Chemistry
Kid-Friendly
Physics

Troy Harbor Robots

Lego Masters at UIUC

Build, Command, and Conquer! Pilot two custom LEGO battle bots—a Pirate ship and a Trojan Horse—using game controllers in this hands-on engineering challenge! Learn the physics of motion and mechanical design by swapping out functional attachments, each with unique powers. Your mission: strategically move within the custom LEGO arena to disable your opponent’s targets, all while mastering precise control to avoid crossing the boundary line. Discover how different mechanical functions lead to different winning strategies in real-time.

Robotics
Art & Design
Mechanics

Clear by Day, Colorful by Light: Exploring Birefringence with Plastic

Materials Science and Engineering

Watch everyday objects like clear, plastic spoons and Scotch tape turn into colorful artwork just by using light. And learn some cool materials science along the way!

Physics
Art & Design
Good for older student

Smart Fluids: Viscosity on Demand

Materials Science and Engineering

Watch liquids stiffen and relax in response to invisible forces!

Physics
Smart Technology
Molecular Scale

Plastics: Know Before You Throw

Materials Science and Engineering

Learn how plastics are reused and recycled!

Environment
Art & Design
Sustainable

Sustainable Biopolymer Yarn

Materials Science and Engineering

Polymerizing a Greener World, One Stitch at a Time!

Sustainable
Chemistry
Molecular Scale

Electricity from Heat: Thermoelectric Energy Conversion

Materials Science and Engineering

How does a Mars rover generate power with dusty solar panels - A thermoelectric module! Come learn about thermoelectric materials - an exciting type of material that converts heat directly into electricity!

Sustainable
Electronics
Outer-Space

Exploring Curie Temperature

Materials Science and Engineering 183

Heat the metal, lose the magnetism.

Physics
Chemistry
Electronics

Color-Changing Hydrogels, Absorbent Polymers, and You!

Materials Science and Engineering 183

Come see how polymers can absorb hundreds times their weight in water, while being used in medicine!

Health & Medicine
Kid-Friendly
Chemistry

Stretch and Squash: Exploring Poisson's Ratio

Materials Science and Engineering 183

Pull, Push, and Observe!

Mechanics
Kid-Friendly
Physics

Painting with Light & Powering Fabrics

Materials Science and Engineering 183

Come create your own UV-activated blueprints and learn how we use light to make computer chips. Then, touch our smart fabrics to see how silver threads turn ordinary cloth into glowing circuits!

Electronics
Chemistry
Smart Technology

Quantum Levitation Train

Materials Science and Engineering 183

Create your own track for a superconducting levitation train and learn about the science behind it!

Physics
Future-Oriented
Mechanics

NATURAL HISTORY BUILDING

Quantum Levitation Train

Materials Science and Engineering 183

Create your own track for a superconducting levitation train and learn about the science behind it!

Environment
Data Science
Research

Build Your Own Terrarium / Make a Soda Tab Buddy

Sustainability Director

Build your own self-sustaining ecosystem or make a fun craft to keep you company!

Sustainable
Art & Design
Kid-Friendly

INTERACTIVE, INTERDISCIPLINARY SCIENCE

I BECKMAN INSTITUTE

OPEN HOUSE

APRIL 10, 9 A.M. TO 4 P.M. &
APRIL 11, 9 A.M. TO 3 P.M.

BASEMENT

Use medical imaging to look inside the body
*Bug out with Bugscope!
Create with the Imagination Station

FIRST FLOOR

Explore three research zones:

Orange Zone: Molecules and materials

Green Zone: Kid-friendly

Blue Zone: Imaging

Room 1005:

Experience ultra-fun with ultrasound
Enter the world of Minecraft through
virtual reality

THIRD FLOOR

Fight cancer with the Fighting Illini
Turn the teenage brain inside-out
Control an electrochemistry robot
Visit the doctor's office of the future

FIFTH FLOOR

Explore the **Purple Zone:** Health and medicine



*Please note that Friday, these spaces are available by appointment only.

EXHIBITS NATL CENTER FOR SUPERCOMPUTING APPLICATIONS

At NCSA, we aim to bring the brightest minds together to solve the grandest challenges and advance humanity. We do this by harnessing the transformative power of computing, software and data sciences, and fostering a united community dedicated to advancing human knowledge and addressing critical societal challenges through research.

Students Pushing INnovation (SPIN) Internship Program (Friday only)

NCSA

The National Center for Supercomputing Applications (NCSA) has a rich history of fostering innovation, with many of the best ideas coming from motivated, creative undergraduates. NCSA launched the Students Pushing INnovation (SPIN) internship program in 2012. Our program's mission is to provide University of Illinois undergraduates the opportunity to apply and develop skills that address real challenges aligned with their interests. SPIN interns work on cutting-edge research projects in areas such as AI, quantum computing, high-performance computing, data analysis and visualization, cybersecurity, and more topics that align with NCSA's mission. Want to know more about SPIN projects? Join us for in-person demos and meet the outstanding interns driving this program's success!

Research
Programming
Good for older
students

3-D Visualization Demonstrations (Friday only)

NCSA Advanced Visualization Lab

Award-winning, cinematic-style visualizations of science data in our 3-D theater

Outer-Space
Molecular Scale
Weather

An integrated platform and software tools for the Marlin firmware 3D printer (Friday only)

NCSA

Centralized control and records for remote 3D printing.

Programming
Smart Technology
Kid-Friendly

Center for Digital Agriculture (Friday only)

Research Group

As our population continues to grow, we are at the forefront of technology to help our agricultural producers and industries operate efficiently, solve labor shortages, and operate sustainably. We will be showcasing examples of our research, including robots, Artificial Intelligence for Livestock, and different technologies for crop production. You can also learn more about degree programs like CS+Animal Science and CS+Crop Science.

Agriculture
Programming
Smart Technology

Healthy Aging (Friday only)

(dis)Ability Design Studio

The project will demonstrate/illustrate a higher level of ADA compliance that is currently lacking. This model will push the boundaries of human-centered design within the sphere of the lived experience for people living with disabilities and those wishing to age (grow old) in their current homes. Participants will experience vision impairments (cataracts, glaucoma, color blindness, macular degeneration and retinitis pigmentosa) and hearing impairment (tinnitus). This experience support a human-centered approach to healthy aging with this immersive experience. It will bring raise awareness of challenges facing many people within our own families and wider community.

Health & Medicine
Future-Oriented
Design Team

Visualization (Friday only)

NCSA Visualization Program Office

A wide variety of visualizations created at NCSA as part of important research in astronomy, earth science, biology, and many other fields.

Environment
Art & Design
Biology

Design for America (Friday only)

Design for America

Learn about Human Centered Design!

Design Team
Kid-Friendly
Art & Design

Genomics: Personalized Health and Nutrition (Friday only)

NCSA

NCSA Genomics: DNA and Personalized Health

Biology
Food
DNA

Computer Aided Design modeling through AI (Friday only)

National Center for Supercomputing Applications

Step into an interactive design experience where artificial intelligence turns ideas into 3D reality. Visitors can chat with an AI or upload a simple 2D image on a laptop, and watch as the AI instantly generates a corresponding CAD model. The evolving 3D design is displayed live on a large monitor, allowing participants to see how concepts transform into detailed digital objects in real time. This exhibit offers a hands-on introduction to AI-driven design, showcasing how intelligent tools can accelerate creativity, engineering, and manufacturing.

Smart Technology
Design Team
Programming

Illinois Science Explorers NCSA Activities (Friday only)

NCSA

Stop by our table to explore a variety of K-8 activities developed by the Illinois Science Explorers! These quick, hands-on activities showcase exciting research and innovations from the National Center for Supercomputing Applications (NCSA). Try all three activities, each lasting just 5 minutes! These activities make complex computing concepts engaging and accessible for young learners.

1. Binary Code Bracelet – Create a bracelet using beads to represent binary code, learning how computers process information.
2. Advanced Visualization Lab – Complete dot-to-dot worksheets to see how computers turn data into images and videos.
3. Parallel Processing Challenge – Work in teams to complete tasks faster, demonstrating how supercomputers divide work efficiently.

Kid-Friendly
Data Science
Programming

mHealth Chatbot (Friday only)

NCSA

mHealth Chatbot is an interactive AI-powered assistant designed to support healthy aging. The chatbot provides personalized, easy-to-understand guidance on topics such as physical activity, nutrition, and general wellness, while demonstrating how artificial intelligence can be tailored to individual needs. Visitors will be able to engage directly with the chatbot and explore how technology can promote independence and well-being for older adults.

Health & Medicine
Programming
Research

National Center for Supercomputing Applications (Friday only)

OVCRI (Office of the Vice Chancellor of Research and Innovation)

At NCSA, our advanced cyberinfrastructure and expertise provide a hub for transdisciplinary research that unites academic institutions and global companies in search of the answers to the world's most challenging problems and help us meet the needs of future generations.

Kid-Friendly
Research
Programming

PALYIM: Fossil Pollen Analysis using AI and HPC (Friday only)

NCSA

Discovering fossil pollen in massive microscopy images just got easier!

Data Science
Biology
Good for older
students

Visual Nutrition (Friday only)

NCSA and PNI

Through integrating AI technologies, such as machine learning, data analytics, large language models, and computer vision, personalized diet plans can now be tailored to individual nutritional needs, preferences, and health goals with unprecedented precision. This new app will allow a person to take a photo of a meal, and it will log nutrients into their personalized nutrition platform which will help design their own nutrition guidance plan.

Health & Medicine
Data Science
Programming

OBSERVATORY

Build the Sky: Engineering a telescope

Astronomical Society at the University of Illinois

Explore how a telescope is balanced, aligned, and moved using an equatorial mount. Rotate the axes, adjust counterweights, and see how Earth's rotation is engineered away.

Outer-Space
Physics
Good for older
students

American Society of Civil Engineers (ASCE)**American Society of Civil Engineers (ASCE)**

ASCE will have a spin-the-wheel game with civil engineering trivia for visitors of all ages. Prizes will be available for winners. There will also be a concrete cornhole game.

Kid-Friendly
Environment
Construction

Building Across Borders - Engineers without Borders UIUC**Engineers without Borders UIUC**

Come test your technical drawing skills, win a prize and learn more about Engineers without Borders!

Design Team
Construction
Environment

Can You Guess the Train Wheel Shape?**American Railway Engineering and Maintenance-of-Way Association Student Chapter**

Test different model train wheel shapes on a miniature track and see which ones can handle a curve. This quick, hands-on demo reveals how the real shape of train wheels helps guide trains safely and smoothly along the rails.

Mechanics
Physics
Kid-Friendly

Can You Keep the Lights On? Engineering to Impact**Civil and Environmental Engineering**

Step into the role of a decision-maker and help a community recover after a storm through smart engineering choices.

Sustainable
Construction
Weather

Engineers In Action Bridge Program**Engineers In Action Bridge Program**

Put your engineering skills to the test! Engineers in Action invites you to help forge the future by becoming engineers for the day! You'll design and build a bridge using limited materials like popsicle sticks, straws, and cardboard. Test how strong your bridge is and learn how engineers use creativity and problem solving to build bridges that connect communities around the world. Build, test, and imagine the future!

Construction
Design Team
Mechanics

Environmental Engineering in Action: Clean Water and Clean Energy**Women in Civil and Environmental Engineering**

Explore how environmental engineers protect our planet through clean water, water chemistry, and renewable energy. Watch demonstration water become clear through filtration, test the pH of everyday solutions, and see wind light up an LED in real time!

Environment
Sustainable
Water

Model Trains: A Miniature Railway**American Railway Engineering and Maintenance-of-Way Association Student Chapter**

Step into the role of a train operator and run a model train on a HO-scale railroad. Adjust the speed, watch the train move through the scenery, and see how real railroads operate.

Kid-Friendly
Programming
Mechanics

Railroad Interlockings: Keeping Trains Safe**American Railway Engineering and Maintenance-of-Way Association Student Chapter**

Come see a demonstration of how trains safely move through junctions and crossings using signal interlockings.

Programming
Cars
Smart Technology

Step into the Future: Pavement Energy Harvesting**American Society of Civil Engineers Transportation & Development Institute (ASCE T&DI)**

Walk across our interactive platform and watch your footsteps turn into electricity in real time, powering LEDs or a small sign you choose. This hands-on demo is a scaled version of a pavement energy harvesting concept that could help power low-energy roadside lights and sensors where grid access is limited

Kid-Friendly
Sustainable
Environment

The Shape of Our Rivers and Coasts**IWRA**

We know the shape of the land tells water where it should go. But water also moves land around. This interaction forms the Earth's everchanging landscape. Our stream table shows how waves and rivers move through land and how they also can change the land.

Environment
Mechanics
Water

Train Simulator**American Railway Engineering and Maintenance-of-Way Association Student Chapter**

Train Simulator: Drive a Real Train. Take the controls and discover what it really takes to stop, steer, and run a train.

Smart Technology
Cars
Kid-Friendly

Concrete Canoe Floating Challenge

Concrete Canoe

Will it float?? Explore the science behind Concrete Canoe!

Kid-Friendly
Physics
Boats

Ghost Electric Motorcycles

Ghost Electric Motorcycles

Ghost Electric Motorcycle's 2025-2026 race bike with old components of the bike available to interact with.

Design Team
Cars
Future-Oriented

Illini Electric Motorsports

Illini Electric Motorsports

IEM Car Displayed

Mechanics

Illini Pullers

Illini Pullers

The Illini Pullers are an engineering design RSO that builds quarter-scale pulling tractors.

Design Team
Agriculture
Cars

Illini Solar Car: Forged by Innovation, Driven by the Sun

Illini Solar Car

Illini Solar Car is a student-led project at the University of Illinois that designs, builds, and races solar-electric race cars in competitions across the nation. This exhibit features our third-generation vehicle, Calypso, which has traveled thousands of miles on solar power alone and won 1st Place at the 2025 Formula Sun Grand Prix (Single-Occupant Vehicle Class).

Cars
Sustainable
Mechanics

Illini VEX Robotics: Custom Soccer Cars

Illini VEX Robotics

High speed, one on one, intense Soccer Cars. Drive, battle, best.

Mechanics
Electronics
Kid-Friendly

Miata Turbo Manifold

N/A

A turbo Miata manifold that was designed and built to be able to hold 12psi of boost and gap V8s! Tested using engineering software and simulations, dynamometer pulls, and even ran on the drag strip to push it to its limits!

Cars
Mechanics
Design Team

Natilee

Off-Road Illini Baja SAE

Watch top-tier engineering come to life as an off-road vehicle takes on jumps, tight turns, and rugged terrain in a live performance exhibition. Designed and built by students for the international Baja SAE competitions, this machine showcases cutting-edge drivetrain, suspension, and chassis design.

Design. Build. Compete

Mechanics
Cars
Design Team

RC Trebuchet

Pi Tau Sigma

RC Trebuchet: Experience the power of medieval engineering brought to life with modern controls. Take aim and fire a real working remote-controlled trebuchet as you explore how gravity, leverage, and energy transform into motion. Safe foam projectiles and a guided setup make this exhibit fun and exciting for visitors of all ages.

Mechanics
Design Team
Cars

B[U]ILT AI-Powered Art Canvas

Black, Underrepresented, Indigenous, and Latinx in Tech (B[U]ILT)

Paint with a Wave of Your Hand!

Turn your hands into a paint brush in this AI-powered art experience. Use simple gestures to draw, change colors, and adjust brush styles. Watch your movements come to life on a digital canvas in real time, then save by downloading from our website!

Programming
Electronics
Kid-Friendly

Computer Science Games and Activities

Siebel School of Computing and Data Science

Come explore all you can do with Computer Science and AI! Organized by Siebel School of Computing and Data Science, these two rooms will feature many interactive activities for all ages.

Programming
Data Science
Kid-Friendly

CyberCorps

Illinois Cybersecurity Scholars Program

Learn how to hack and defend networks!

Programming
Research
Electronics

FormFit

Individual

Harnessing machine learning to give quantitative feedback on physical therapy stretches and exercises.

Smart Technology
Programming
Health & Medicine

IMMERSE Center for Immersive Computing

Siebel School of Computing and Data Science

Immerse Yourself in the Future of XR. For the exhibit, we will showcase Extended Reality (XR) demonstrations from the IMMERSE community. Participants will have the opportunity to engage directly with XR environments, interacting with a range of research-based scenarios in an immersive, hands-on manner. This fully interactive experience will allow participants to explore the cutting-edge research and technologies being developed within the community.

Future-Oriented
Kid-Friendly
Research

Latency Racer

Senior Thesis with Professor Angrave

Do you know what the scariest word is in high-speed technology? Latency! Experience latency firsthand in this fast-paced racing game and learn why programmers and network engineers work so hard to minimize it.

Programming
Cars
Smart Technology

ScribeAR: See What You Speak!

ScribeAR Research Group

See What You Speak! With ScribeAR's AR glasses, you can see live subtitles of your conversations!

Research
Future-Oriented
Smart Technology

SIGRobotics

SIGRobotics

We are a student-run robotics special-interest group, focused on building open-ended projects, contributing to open-source, and doing quality research in robotics and robot learning.

Robotics
Programming
Future-Oriented

WCS Dev Ada

Women in Computer Science

Code. Collaborate. Create. Discover the transformative projects developed by participants of WCS' Dev Ada project cycle. This exhibit highlights innovative software solutions crafted by aspiring developers who have collaborated throughout the year to bring these ideas to life.

Programming
Smart Technology
Data Science

WiCYS: Enigma Machine

Women in Cybersecurity (WiCYS)

Come over and break secret messages with our small-scale enigma machine! If you're interested in cybersecurity, a fan of The Imitation Game, or just want some candy, you should stop by at the Women in Cybersecurity (WiCYS) booth!

Programming
Electronics
Smart Technology

Beat Bot

American Society of Mechanical Engineers (ASME)

Experience the rhythms of robotics in this unique musical display! Beat Bot blends engineering and music into a hands-on, interactive experience for all ages!

Music
Robotics
Electronics

Build. Snap. Go!

MechSE Makerworks

Build, decorate, and race your own customized rubber band car! Learn about how cars work with 3D printed models from the Jackson Innovation Studio.

Mechanics
Cars
Kid-Friendly

Big Hero 6 Microbots

Individual

Come watch Big Hero 6's microbots in real life! Control them using camera-sensed hand movement!

Future-Oriented
Robotics
Health & Medicine

Dextera

ASME (American Society of Mechanical Engineers)

Ever wanted to control a robot arm? Come check out ASME's Dexterous Hand Project, the first ever fusion robot that combines a precision robotic arm with a dexterous humanoid hand. You can take control, pick up blocks, stack cups and grab your own candy!

Robotics
Mechanics
Kid-Friendly

Flappy Bird

Women In Mechanical Engineering

Real-Life Flappy Bird — Fully Mechanical, No Screen Required!

Kid-Friendly
Mechanics
Art & Design

Hybrid Piano

American Society of Mechanical Engineers

Our overall goal is to fully design and manufacture an open source silent-system piano system with a retrofitted synthesizer!

Music
Smart Technology
Electronics

Iron Man Helmet

American Society of Mechanical Engineers

Our exhibit is a fully functional Iron Man Helmet! The helmet features a built in Jarvis AI that can respond to voice commands to open/close the mask, turn on/off the LED eye lights, and can answer any other questions that an AI chatbot would be able to answer.

Mechanics
Electronics
Programming

Leader-Wingman Robotics

Korean-American Scientists and Engineers Association

A glimpse into the future of Manned-Unmanned cooperative autonomous robotics.

Robotics
Programming
Smart Technology

NovoPrint 3D-Printing Robot Arm

American Society of Mechanical Engineers

A 3D printed, 3D printing robotic arm.

Robotics
Research
Smart Technology

Power Generation in Doors

American Society of Mechanical Engineers

Revolving doors are constantly generating mechanical energy as people push them. Our design captures that energy to power the door system, making it easier for individuals with limited mobility to operate the door. This way we combine accessibility with sustainability!

Sustainable
Mechanics
Environment

Powerchair Computer Integration

ASME, MediMech

Powerchair Computer Integration — "Computing without limits: your PC wherever you roll." This project builds a modular, flexible computer setup — keyboard, monitor, peripherals, power hardware — designed so a user in a wheelchair can work comfortably from any position — even fully reclined. The system is engineered to adapt to mounting hardware, assistive-power outputs, and accessibility needs, bringing full PC functionality within reach, literally.

Mechanics
Health & Medicine
Prosthetics

Human Squishy-osity

IBB and Hutchens Labs

From Jiggle to Structure: The Mechanics of your Body

Mechanics
Biology
Health & Medicine**Robotic Car Tracer**

Alpha Omega Epsilon

Meet the line following robot! Join us to draw your own path and take control of the robot's journey!

Robotics
Electronics
Mechanics**Society of Hispanic Professional Engineers**

Society of Hispanic Professional Engineers

This exhibit brings together cultural tradition and modern technology by showcasing a machine that plays Lotería using object tracking and automation. By placing beans onto a Lotería deck with precision, the system demonstrates how machines can interpret visual information and interact with physical objects. Visitors are invited to observe how a familiar, culturally meaningful game is transformed into a hands-on demonstration of computer vision and robotics, highlighting the connection between heritage and emerging technology.

Programming
Electronics
Mechanics**SPD Biomimetic Robot**

Sigma Phi Delta

Step into the future of robotics with an interactive, cable-driven robotic hand that moves just like a human hand. Visitors can control the robot using their own hand motions, a joystick, or motion-tracking technology to perform gestures, grasp objects, and explore how robots can imitate human movement. This exhibit showcases cutting-edge soft robotics and human-robot interaction, highlighting real-world applications in medicine.

Robotics
Mechanics
Biology**The Icing on the Machine: A Rube Goldberg Story**

Rube Goldberg Society

Watch a bakery-themed chain reaction end with a delicious reveal!

Physics
Art & Design
Mechanics

Step into a world of engineering confections! Our bakery-themed Rube Goldberg machine transforms pastries and coffee beans into a wonderfully clumsy chain reaction, all to accomplish one simple, sweet task: opening a box.

The Marvelous Marshmallow Motion Machine

Society for Engineering Mechanics

See the ingenious construction of mechanical control systems, and how simple gears and chains can forge the devices of the future!

Mechanics
Physics
Robotics**Theta Tau Slime Gizmo**

Theta Tau

Custom slime made automatically!

Robotics
Chemistry
Art & Design**VidaCloud - Intelligent Mattress Topper**

American Society of Mechanical Engineers

Revolutionizing comfort and care! With our intelligent mattress topper, we can detect and prevent pressure ulcers from forming for high-risk patients. We've been told it feels like a "cloud," so come try it out!

Health & Medicine
Electronics
Smart Technology

TALBOT LABORATORY

Artemis Engineering Challenge

NASA Illinois Space Grant Consortium

Join NASA Illinois Space Grant at Engineering Open House and put your problem-solving skills to the test in the Artemis Engineering Trials, inspired by NASA's Artemis program. Visitors can choose from two hands-on challenges: a Rover Coding Challenge, where participants program a rover to navigate lunar or Martian terrain during scheduled 15-minute sessions, or a Spatial Reasoning Challenge, featuring fast-paced puzzles and a competitive leaderboard. Whether you're an experienced coder or just love a good challenge, stop by to try NASA-inspired engineering in action. Teachers are also invited to pick up a free Artemis teaching packet while supplies last.

Outer-Space
Kid-Friendly
Programming

Centrifuge and Diffusion

American Nuclear Society

Nuclear Fuel Separation: Centrifuges and Diffusion!

Physics
Kid-Friendly
Good for older students

Cloud Chamber

American Nuclear Society

Ever wondered what radiation looks like? A cloud chamber uses differences in temperature to create a supersaturated alcohol cloud, allowing radiation to become visible by leaving trails!

Physics
Molecular Scale
Good for older students

DC Glow

American Nuclear Society

Ever wonder what the fourth state of matter is? Watch the DC Glow plasma discharge to learn about plasma physics, nuclear fusion, and more!

Physics
Future-Oriented
Good for older students

Fusor

American Nuclear Society

Real nuclear fusion! Learn about particle physics, nuclear fusion, and see a “Star in a Jar” with your own eyes.

Physics
Future-Oriented
Molecular Scale

Ion Thruster

American Nuclear Society

What is the future of space travel? Ion propulsion harnesses electrical power and ionized air to generate thrust, like a fan without blades.

Physics
Future-Oriented
Outer-Space

Radiation Scavenger Hunt/Self-Developed Geiger Counter

American Nuclear Society

Ever wondered what those big cooling towers are for? Come learn how a nuclear reactor works, including nuclear fuel, storage, and green energy!

Sustainable
Environment
Good for older students

Near-Infrared Diffused Optical Tomography (NIR-DOT)

American Nuclear Society

Ever wondered how medical devices are able to scan your bodies? Come learn the science behind medical imaging using radiation detection! See Through Anything: How Light Brings the Inside Out!

Health & Medicine
Physics
Kid-Friendly

Mousetrap Reactor & Take Home an Atom

Women in Nuclear

See a reactor come to life, design an atom of your own, and learn about the science and history behind nuclear engineering with Women in Nuclear!

Kid-Friendly
Physics
Sustainable

Plasma Antenna

American Nuclear Society

Did you know you can hear the radio from a plasma? Discover how ionized gas can transmit and receive signals, and the future of radio communication!

Future-Oriented
Physics
Electronics

Plasma Speaker

American Nuclear Society

Experience Music Made by Electrifying Plasma!

Electronics
Physics
Music

Plasma Sterilization

American Nuclear Society

Touch plasma with your very own hands; learn how plasmas can be used for sterilization and medical applications!

Health & Medicine
Future-Oriented
Physics

Plasma Toroid

American Nuclear Society

A Glowing Plasma Donut! Come Learn about Fusion Reactors

Physics
Sustainable
Future-Oriented

Radiation Scavenger Hunt/Self-Developed Geiger Counter

American Nuclear Society

Detect What You Can't See: Geiger Counters and Radiation!

Physics
Kid-Friendly
Electronics

Egg Drop Challenge

Institute of Industrial and Systems Engineers

In this egg drop challenge, your priceless cargo takes a dangerous plunge. Protect the egg—or pay the price.

Kid-Friendly
Mechanics
Art & Design

IonSpark

ION-I: Electric Propulsion Initiative

A Simplified Heaterless Plasma Cathode for Electric Propulsion: IonSpark is a student-built electron source designed to generate plasma for spacecraft that use ion thrusters. The project represents one of ION-I's first steps toward developing UIUC's first undergraduate-built ion thruster.

Physics
Outer-Space
Research

ISE Senior Design Showcase

Industrial and Enterprise Systems Engineering

See this year's Industrial and Systems Engineering senior design projects and learn about applying ISE principles to solve real-world problems.

Good for older
students
Future-Oriented
Design Team

Product Design Laboratory

Systems Engineering

Come explore the exciting world of product design and the cool ways that innovation can be brought to your fingertips.

Kid-Friendly
Future-Oriented
Design Team

Shark Tank

Institute of Industrial and Systems Engineers

Dive into a fast-paced challenge where teams brainstorm pitch their innovative solutions to an engineering problem.

Art & Design
Good for older
students
Kid-Friendly

Supply Chain Maze with Computer Vision

Institute of Industrial and Systems Engineers

Test your problem-solving skills at our life-sized Supply Chain maze. Also, interact with Computer Vision to learn how it can help with optimization problems.

Kid-Friendly
Smart Technology
Programming



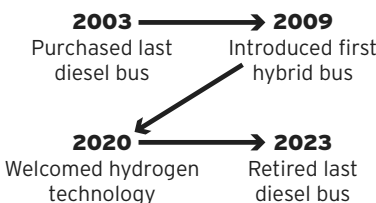
1 Clean Fleet



10% Zero Emission
Hydrogen Fuel Cell Electric



90% Low Emission
Diesel Electric Hybrid



2 Green Facilities

Solar Array

(5,500+ panels) powers MTD's hydrogen production station

Rooftop Solar

(1,200+ panels) offsets roughly 25% of energy use at MTD's Maintenance Facility

Sustainable Facilities

Geothermal HVAC, automatic LED lighting, permeable paved parking, and white roof coverings

3 Sustainable Practices

Environmental Policy

ISO certifications with **audits** to ensure that District policies **reduce our environmental impact**

"Most Innovative" Climate Action Plan

Recognition from Federal Transit Administration (FTA)

District Culture

Awareness training, encouraging active transportation, and opportunities for employees to engage



BECKMAN INSTITUTE OPEN HOUSE

April 10, 9 a.m. to 4 p.m.
&
April 11, 9 a.m. to 3 p.m.



BASEMENT

Use medical imaging to look inside the body
*Bug out with Bugscope!
Create with the Imagination Station

FIRST FLOOR

Explore three research zones:
Orange Zone: Molecules and materials
Green Zone: Kid-friendly
Blue Zone: Imaging

Room 1005:
Experience ultra-fun with ultrasound
Enter the world of Minecraft through
virtual reality

THIRD FLOOR

Fight cancer with the Fighting Illini
Turn the teenage brain inside-out
Control an electrochemistry robot
Visit the doctor's office of the future

FIFTH FLOOR

Explore the **Purple Zone:** Health and medicine

*Please note that Friday, these spaces are available by appointment only.



JOHN DEERE

John Deere is proud to sponsor Engineering Open House 2026



EOH CENTRAL COMMITTEE



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Co-Director
Physics and French
Senior



Aparna Kamath
Co-Director
Physics
Senior



Hiruni Bopearatchy
Secretary/Treasurer
Mechanical Engineering
Junior



Ella Greer
Director of Facilities and Equipment
Aerospace Engineering
Senior



Kate Pactol
Director of Exhibits
Mechanical Engineering
Junior



Adithi Bikkavilli
Director of Traffic & Safety
Computer Engineering
Junior



Shivaditya Gohil
Senior Corporate Director
Computer Engineering
Graduate Student



Roshni Mathew
Senior Corporate Director
Computer Engineering
Senior



Archir Luhana
Junior Corporate Director
Electric Engineering
Junior



Shreya Gosavi
Director of Special Events
Computer Science + Crop
Sciences
Junior



Manasi Bhargava
Director of Special Events
Engineering Mechanics
Junior



Ishani Patel
Director of Marketing
Electrical Engineering
Senior

EOH CENTRAL COMMITTEE



Sarah Su
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Bioengineering
Sophomore



Riya Karkhanis
Director of Marketing
Computer Engineering
Junior



Lillian Wang
Director of Visitor's
Information
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Sophomore



Atsi Gupta
Director of Visitor's
Information and
Sustainability
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Senior



Sydney Pavlik
Middle School Design
Competition Director
Material Science and
Engineering
Sophomore



Aryaa Rathi
High School Design
Competition Director
Computer Science
Junior



Faraz Bhuiyan
Startup Showcase
Director
Mechanical Engineering
Senior



Alyssa Huang
Director of Judging
and Awards
Electrical Engineering
Graduate Student



Kushi Saboo
Director of Advancements
Computer Engineering
Senior



Divya Bendigeri
Senior Director of
Hospitality
Bioengineering
Senior



Mohammad Alghamdi
Director of Hospitality
Materials Science and
Engineering
Sophomore

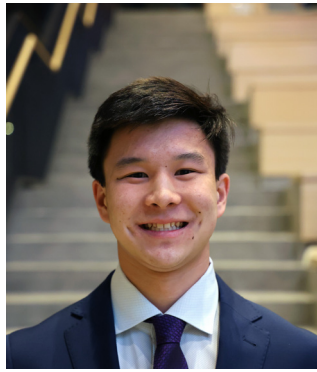


Shaan Doshi
Senior Director of
Technology
Computer Science and
Physics

EOH CENTRAL COMMITTEE



Vani Ramesh
Junior Director of
Technology
Computer Science
Junior



Nathan Chan
Junior Director of
Technology
Material Science and
Engineering
Freshman



Tessa Waldhoff
Director of Outreach
Bioengineering
Sophomore



Brandon Kiene
Junior Director of
Outreach
Engineering Mechanics
Freshman



Tushar Jain
Junior Director of
Outreach
Industrial Engineering
Junior



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The Hoeft Technology & Management Program

Gies Business | Grainger Engineering



Freshman apply in spring semester to:

- build a strong peer and corporate network
- Engage in project-based and immersive learning
- Cross-disciplinary courses that set graduates apart in the innovation economy

Learn More.



Beckman Institute for Advanced Science and Technology



The Hoeft Technology & Management Program

Gies Business | Grainger Engineering



Scan the QR code to learn more!



APRIL 10TH-11TH



STAY CONNECTED

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