

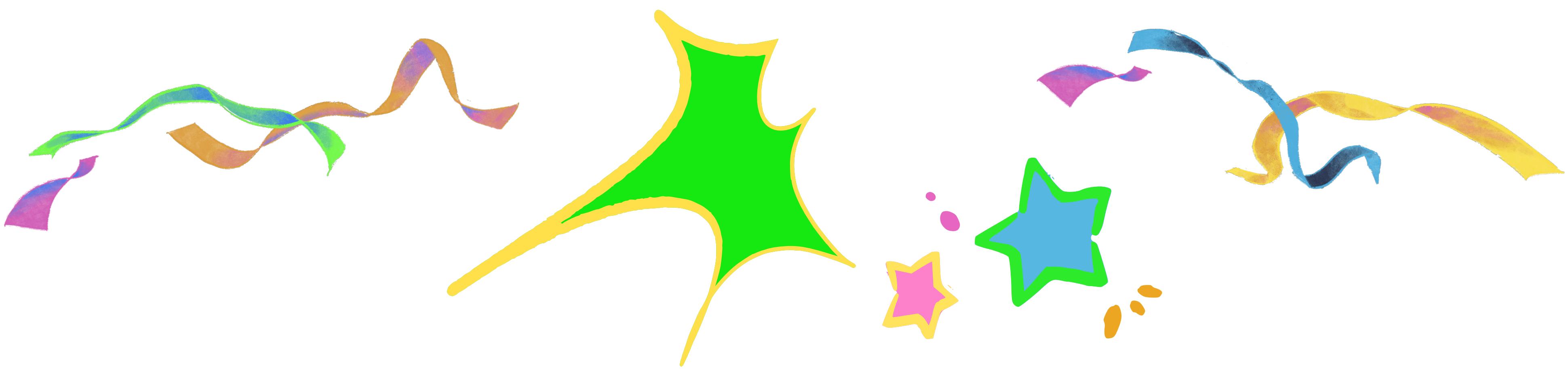


WELCOME TO



**Hack the North 2022**

In-person event @ Waterloo, ON • September 16-18th, 2022



## Presented by:



Techyon is a nonprofit dedicated to empowering the next generation of tech leaders.

Techyon's vision is to foster an inclusive tech culture and community, with the mission to lower the barrier of entry to technology by bridging the gap between individuals and opportunities. Our goal is to have year-round representation of every specialization within technology. Whether your interests lie in hardware, software, design, product management, or data science, we want you to think of Techyon first. Feel free to reach out to [hello@techyon.org](mailto:hello@techyon.org) to learn more!

## WATERLOO | ENGINEERING

Our partner of over 9 years, Waterloo Engineering continues to support Hack the North to build a creative, diverse, and unique experience for hackers. The University of Waterloo is home to Canada's largest engineering school — a pipeline for engineering talent for the world's leading companies. Ranked among the top 50 engineering schools in the world, the school's reputation for excellence is built on the foundation of co-op education and a bold history of innovation.

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## Our partners:

**WATERLOO | ENGINEERING**



**COMMUNITECH**

**inovia**

**MLH**  
MAJOR LEAGUE HACKING

  
**VELOCITY**



UNIVERSITY OF  
**WATERLOO**

# Welcome to Hack the North 2022!

This weekend, you're in for 36 hours of **building**, **learning**, **friendship**, and **growth**. Whether you're joining us from overseas or you just walked a couple blocks, Hack the North has something for everyone.

We have an exciting lineup of activities prepared, including a mind-reading show, a fire-noodle challenge, and a silent disco. And be sure to enjoy our amazing food, from international flavors like butter chicken and Thai curry to Canadian classics like Beavertails and, of course, our signature late-night poutine.

This booklet contains information about where to find food and refreshments, a list of workshops and meetups, and key contact information. If you haven't found a team yet, check out the **Team Formation workshop** happening on **Friday at 11:30 PM** in the **Activities Room** on the first floor.

We wish every hacker the absolute best for this weekend. Now get out there, and create something amazing! If you require any assistance, please consult one of our organizers on floor patrol—we'll be wearing black fleece jackets, and we're always happy to help ❤️

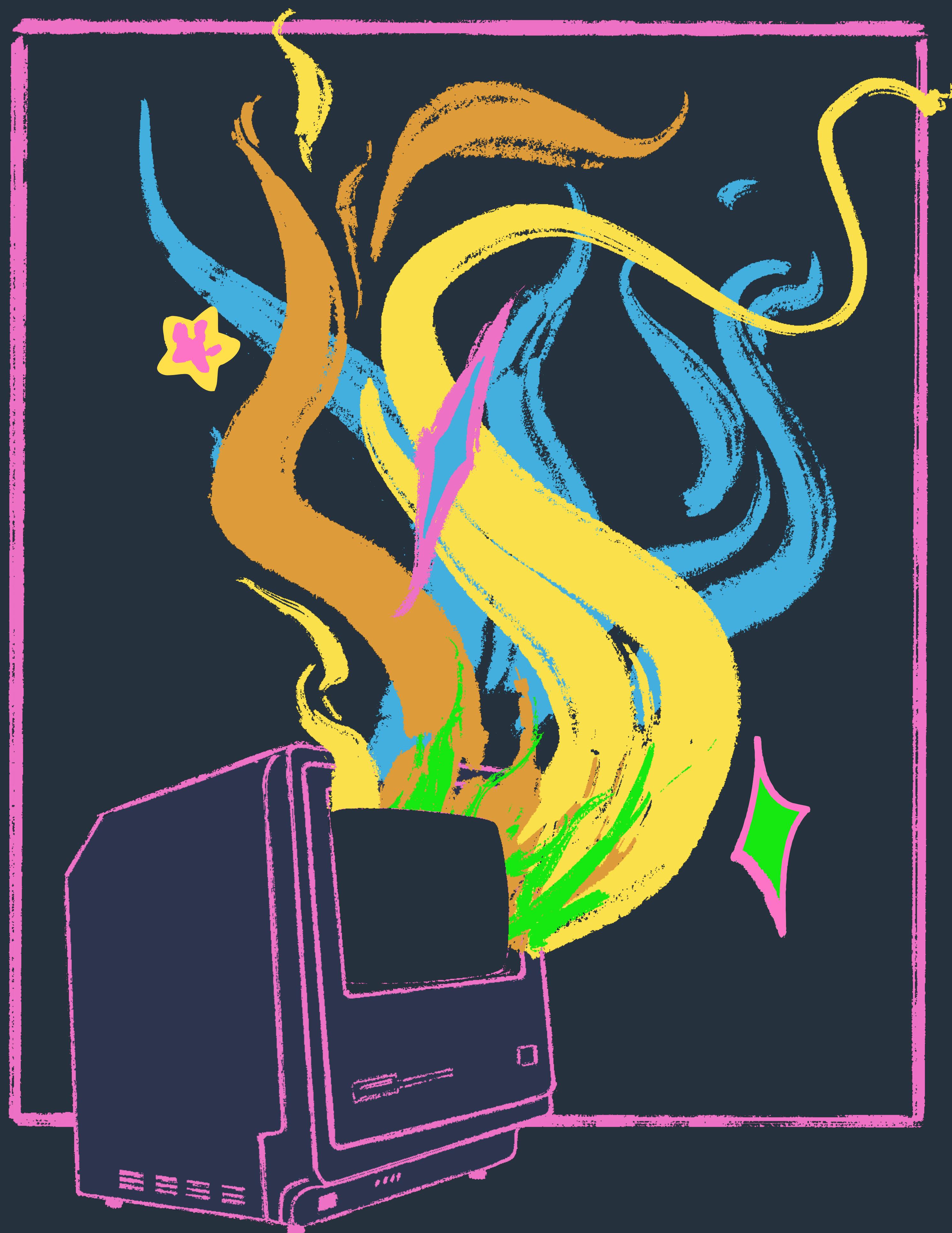
Don't forget to stay up to date this weekend through these channels:

[hackthenorth.com](http://hackthenorth.com)

[hackthenorth.slack.com](https://hackthenorth.slack.com)

[my.hackthenorth.com](http://my.hackthenorth.com)

— @hackthenorth



# Important Information

## Emergency contacts

University of Waterloo Police:	519-888-4911
Event Helpline:	519-888-4979
Hack the North:	hello@hackthenorth.com
Good2Talk (Mental Health Helpline):	866-925-5454

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## Internet connection

Network name: Hack the North  
Password: uwaterloo

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## Slack and Communication

Join the Hack the North Slack to connect with other hackers, organizers, and sponsors. Slack will be the primary method of communication throughout the weekend, and will be used to relay important announcements and challenges.

### **hackthenorth.slack.com**

An invite to Hack the North's event Slack should have been sent to your email before the event. If you have issues accessing our event Slack, please come to the Help Desk!

### **my.hackthenorth.com**

Head to [my.hackthenorth.com](https://my.hackthenorth.com) to view our Attendee Dashboard! You'll be able to view important information like the schedule and access tools like Mentorship and Hardware.

## **QR codes and security**

- You must have the QR code on your badge scanned to redeem food and attend activities and workshops.
  - Your badge and your wristband must be worn at all times - do not remove your wristband or lose your badge!
- 

## **Help Desk**

Help Desk is located by the E7 main entrance, and will be staffed by organizers that are ready to address any questions and concerns you may have throughout the weekend.

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## **Food and water**

We encourage you to use the tumblers you received in your swag bag! Water refill stations can be found in the lobbies on every floor.

All containers, napkins, and cutlery are recyclable and compostable, so please throw your food waste in the compost bins found in the common area of every floor.

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## **Event-long activities**

These activities are available throughout the entire weekend on the first floor of E7, next to Help Desk:

**Hacker world map:** Tell us where you are from!

**Hack the North puzzle:** Collaborate with other hackers to finish a 500-piece puzzle!

**Friendship bracelets:** Customize your own bracelet and build new friendships!

**Giant board games:** Connect 4, and Giant Jenga awaits!

## Mentorship

If you're in need of help throughout the weekend, our mentors have you covered! If you have a question, you can submit a mentorship request through the Mentorship Tool on the Hacker Dashboard. Our mentors will be reviewing requests and you'll receive a notification on Slack when a mentor has claimed your request and is ready to meet with you.

Mentors will also be available 24/7 in the Mentor Hub located on the 1st floor of E7. They'll be wearing royal blue t-shirts, so feel free to start a conversation or ask for help!

If you're feeling a bit lost or your team would like a bit more help getting started, you can get matched up with Hackathon Host! These mentors are your go-to resources for beginner-friendly guidance on navigating your hackathon experience. Come meet a Hackathon Host on **Saturday at 10 AM in Room 4A** to kickstart your project!

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## Sponsor Bay

Come meet all our sponsors in the Sponsor Bay on the 2nd floor of E7! Chat with reps to learn about career opportunities, and maybe pick up some more free swag while you're at it! The Sponsor Bay will be most lively on Friday evening just after opening ceremonies, but it is open throughout the event.

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## Multifaith Space/Quiet Area

The 7th floor lobby of E7 is a quiet space that can be used for prayer, meditation, or quiet contemplation. A quiet smaller room on the 4th floor of E7 is also available.

## **Sleep, showers, and toiletries**

All sleeping spaces are open Saturday 12 AM - Sunday 12 PM and will have blankets, pillows, and air mattresses/cots (except for the sleeping bag room).

### **E5/E7:**

- Sleeping bag room (1302) on the 1st floor (quiet, carpeted area for hackers who brought their own sleeping bag)
- Sleeping areas on the 6th floor

### **E6:**

- Floor 1: Male-only
- Floor 2: All gender
- Floor 3: All gender
- Floor 4: Female-only
- Floor 5: Female-only

Toiletries are available at Help Desk, including: showering gel, shampoo, conditioner, toothbrush, toothpaste, mouthwash, and hand sanitizer

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## **Gender neutral + accessible washrooms**

Gender neutral bathrooms are located on floors 1, 2, 4, and 7 of E7, and are all wheelchair accessible.

## Cohere Hardware Hacking Corner

Attention hardware hackers! This year, we have a dedicated hardware hacking hub located on the first floor of E7 which will have:

- Large tables suitable for working on hardware hacks
- Access to soldering irons, glue guns, and various hand tools
- Dedicated hardware mentors
- A drone room
- 24/7 hardware checkout and return

### Hardware checkout

We have hundreds of different hardware items available for you to borrow for the weekend—Arduinos, sensors, motors, and much much more are available by request, and we also have a few VR headsets, drones, and other special items that will be signed out via a lottery system. You can request items either before hacking starts or anytime throughout the weekend.

You must request items through the Hardware page on [my.hackthenorth.com](http://my.hackthenorth.com) first! Once your items are ready, come to the hardware checkout desk in the Cohere Hardware Hacking Corner to pick up your items.

If the hardware you receive is defective or you think you have damaged it, please bring it back to the hardware checkout desk. Replacements may be available, but please always inform us if your hardware is broken so that we don't give it out to someone else — you won't be required to pay for it unless it was clearly damaged from misuse.

## **3D printing and laser cutting**

We have 3D printers and laser cutting machines available to help bring your hardware hack to life! These are located in the 3D Print Lab on the second floor of E5, just past the Organizer HQ. 3D printing is available on a first-come-first-serve basis throughout the weekend, while laser cutting will be available on Saturday from 9 AM - 9 PM.

## **Drone policy**

We are excited to give you the chance to hack on drones this year, but for everyone's safety, we have a few strict rules:

Drones may only be flown in the designated drone room, must be less than 250g, and must have propeller guards. There can only be one team in the drone room at a time.

You may NOT under any circumstances:

- Fly drones that are larger than 250g
- Fly drones outdoors, in hallways, or anywhere other than the designated drone room.

**Please note that under Canadian law, it is illegal to fly drones larger than 250g without a drone pilot license.**

# Schedule

You can also find the schedule on [my.hackthenorth.com](http://my.hackthenorth.com), with additional details such as dietary information for food and workshop hack packs!

## Friday, September 16th

5:30 PM - 12:00 AM <i>ETHGlobal Tent</i>	<b>Registration</b>
6:00 PM - 12:00 AM <i>ETHGlobal Tent</i>	<b>Dinner</b>
9:00 PM - 10:45 PM <i>Lazaridis Hall</i>	<b>Opening Ceremonies</b> Don't miss out on important event info, our keynote speaker, and a chance to grab some limited-edition swag!
11:30 PM <i>Cohere Hardware Hacking Corner</i>	<b>Hardware pickup starts</b> Reserve your hardware in advance on <a href="http://my.hackthenorth.com">my.hackthenorth.com</a> !
11:30 PM - 12:30 AM <i>RBC Innovation Wing Room 3A</i>	<b>Team Formation</b>
11:45 PM - 12:00 AM <i>E7 Parking Lot</i>	<b>Drone Show</b>

## Saturday, September 17th

12:00 AM	<b>Hacking starts!</b>
12:00 AM - 3:30 AM	<b>Workshops and Sponsor API Workshops</b> See pages 13-18
12:30 AM - 2:30 AM <i>ETHGlobal Tent</i>	<b>Snack: Poutine or Cookie Dough</b>

4:00 AM - 5:00 AM <i>Activities Room</i>	<b>Fire Noodles</b>
7:00 AM - 8:00 AM <i>Empowerment Lounge</i>	<b>Yoga</b>
8:00 AM - 11:00 AM <i>ETHGlobal Tent</i>	<b>Breakfast</b>
9:00 AM - 6:00 PM	<b>Career Development Sessions</b> with Cohere, ETHGlobal, and RBC See page 22 for more details!
9:00 AM - 10:00 AM <i>Room 5A</i>	<b>RBC Office Hours</b>
9:00 AM - 9:30 AM <i>Room 4A</i>	<b>Ubisoft API Workshop</b>
10:00 AM - 11:00 AM <i>Room 4A</i>	<b>Hackathon Hosts Session</b> Feeling stuck? Get matched with a Hackathon Host here! See page 5 for more details!
10:00 AM - 11:00 AM <i>Room 4B</i>	<b>TD Lightning Challenge</b>
10:30 AM - 11:30 AM <i>Empowerment Lounge</i>	<b>MLH Cup Stacking</b>
10:30 AM - 3:30 PM <i>RBC Innovation Wing Room 3A</i>	<b>Panels</b> See page 19
11:00 AM - 4:30 PM	<b>Workshops and Tech Talks</b> See pages 13-16 and 21 for more details!
11:00 AM - 12:30 PM <i>ETHGlobal Tent</i>	<b>Snack: Soup from Zoup</b>

11:00 AM - 1:00 PM	<b>Bubble Soccer</b>
V1 Green	
12:30 PM - 1:30 PM	<b>MLH Real Life Among Us</b>
Activities Room	
1:00 PM - 3:30 PM	<b>Lunch</b>
ETHGlobal Tent	
1:00 PM - 6:00 PM	<b>Photo Booth</b>
E7 1st Floor	
2:00 PM - 4:00 PM	<b>Spikeball + Goose Kart Racing</b>
E7 Parking Lot	
2:30 PM - 4:30 PM	<b>Dalgona Candy</b>
Room 4B	
3:00 PM - 4:00 PM	<b>Therapy Dogs</b>
Activities Room	
4:00 PM - 5:30 PM	<b>Snack: Four All Ice Cream</b>
ETHGlobal Tent	
4:00 PM - 5:00 PM	<b>Replit Office Hours</b>
Room 5A	
5:00 PM - 6:00 PM	<b>TD Office Hours</b>
Room 4C	
5:00 PM - 6:00 PM	<b>IMC Office Hours</b>
Room 5B	
5:00 PM - 6:00 PM	<b>Mind Reading Show</b>
Room 4B	
6:00 PM - 9:00 PM	<b>Dinner</b>
ETHGlobal Tent	
6:00 PM - 1:30 AM	<b>Meetups</b>
Activities Room / Empowerment Lounge	See pages 20-21 for more details!

7:00 PM - 8:00 PM <i>ETHGlobal Tent</i>	<b>Sunset Karaoke</b>
9:00 PM - 10:00 PM <i>RBC Innovation Wing Room 3A</i>	<b>Pitching 101 Workshop</b>
9:30 PM - 11:30 PM <i>ETHGlobal Tent</i>	<b>Snack: Beavertails</b>
10:30 PM - 1:00 AM <i>Design Bay</i>	<b>Silent Disco</b>

## Sunday, September 18th

1:00 AM - 3:00 AM <i>ETHGlobal Tent</i>	<b>Snack: Pierogies</b>
8:00 AM - 10:00 AM <i>ETHGlobal Tent</i>	<b>Breakfast</b>
8:00 AM	<b>Hacking ends!</b> Submissions are due on Devpost
10:00 AM - 1:00 PM	<b>Judging Block</b> Judging rooms will be assigned to each group via Slack and Attendee Dashboard
10:00 AM - 1:30 PM <i>Empowerment Lounge</i>	<b>Science Fair Showcase</b> Hackers in the Existing Stream will display their projects—check it out!
11:00 AM - 1:00 PM <i>ETHGlobal Tent</i>	<b>Lunch</b>
2:00 PM - 4:00 PM <i>Lazaridis Hall</i>	<b>Closing Ceremonies</b> Wrap up the weekend and check out live demos of our finalists' amazing projects!
10:00 AM - 2:00 PM <i>Cohere Hardware</i> <i>Hacking Corner</i>	<b>Hardware Return</b>

# Workshops

Presented by Hack the North

## Saturday, September 17th

**How to Hack Like Your Favorite YouTuber:** 12:30 AM - 2:00 AM  
**Intro to Hardware Projects** *RBC Innovation Wing Room 3A*

This workshop will give you a foundation that you can build upon to be successful with hardware hacks! We go over the technical basics of hardware components with interactive examples, then talk about how to approach and execute your project ideas like a YouTuber.

**Hackathons 101** 12:30 AM - 1:30 AM  
*RBC Innovation Wing Room 3B*

What the hack goes on at Hack the North?! Come out and join us at this workshop to learn more about how to make the most of the hackathon experience, especially as we return to an in-person event! We'll be going over all the different parts of the hackathon and how you can optimize your time.

**Introduction to Machine Learning** 12:30 AM - 1:30 AM  
*Room 5A*

Computers learning to think!? Whether it be predicting weather trends or changes in the stock market, machine learning is the future. At the end of this workshop, you'll have a basic understanding of machine learning concepts in a code-free environment.

**Bring Your Own Idea: Ideation 101** 1:30 AM - 2:30 AM  
*RBC Innovation Wing Room 3B*

Is this your first time hacking and don't know where to start? In this session, we will discuss how to define a problem space, fabricate a solution and then construct an effective and economical demo for the pitch.

**Build a Complete Web App in Ruby on Rails in Under an Hour** 1:30 AM - 2:30 AM  
Room 4B

Ruby on Rails is a great tool to go with to kickstart your hackathon project and finish a working prototype within a short amount of time, so you have time for all the bells and whistles. In this workshop, you'll build your own web application from start to finish in only an hour with Rails!

**Prop-aganda: a Hands-On Introduction to React** 2:30 AM - 3:30 AM  
*RBC Innovation Wing Room 3A*

Looking to level up your front-end skills? Or have you seen “React” mentioned on one too many job postings? This is your chance to get your feet wet with the framework everyone can’t stop raving about. In this hands-on introduction, you’ll have an opportunity to build a first site leveraging React.

**Discord Bots: APIs, Design and Deployment** 2:30 AM - 3:30 AM  
*RBC Innovation Wing Room 3B*

This workshop introduces hackers to all steps of the Discord bot creation process. By the end of the workshop, you will learn how to design, code, and deploy a bot!

**What Can You Hack in Biology?: Intro to Biotech** 11:00 AM - 12:00 PM  
*RBC Innovation Wing Room 3B*

We keep hearing about how the future lies in the intersection of tech and biology, but between these two fields, where do the similarities end and the differences begin? How does biotech actually work and what makes it different from tech? Come to this workshop to learn how you, a hacker, can help build the future of biology.

**Computer Networking and Peer-to-Peer Applications** 11:00 AM - 12:00 PM  
Room 4B

Join this workshop to learn about how the internet was made resilient to nuclear attacks, why decentralization matters, and an introduction to peer-to-peer networks. By the end of this workshop, you'll be able to recreate Figma's cursor chat with peer-to-peer communication concepts!

<b>Hack into Text: Natural Language Processing Powered by PyTorch</b>	12:00 PM - 1:00 PM
	Room 4A

Are you curious about how the cool AI generated images are made? Or how chatbots work? This workshop will teach you how to train, adapt and optimize a NLP model with a hands-on tutorial on Pytorch and ONNX Runtime for deployment.

<b>An Introduction to Tech and Algorithms in the Public Sector</b>	12:00 PM - 1:00 PM
	Room 4C

How is tech used in the public sector? In this workshop, you will learn about the current state of algorithm use in the public sector, example use cases in child welfare matching, and how to find an equally fulfilling technical career in this field.

<b>Introduction to Climate Tech</b>	1:00 PM - 2:00 PM
	<i>RBC Innovation Wing Room 3B</i>

If you're here, you probably care about how carbon emissions are increasing the average temperature of the planet. Is there a way to do work you enjoy, while addressing this existential problem? We researched this so you don't have to! This workshop will cover key industries, notable players, and lesser known tips for getting roles, with some historical context sprinkled in.

<b>Build and Deploy a Simple Auto-Complete Application with Flask and Docker</b>	1:00 PM - 2:00 PM
	Room 4B

Come learn how to build a basic version of the very common auto-complete functionality found in most messaging services! We will explore Machine Learning/Natural Language Processing (NLP), Docker, and Flask to build and deploy this application on the cloud.

<b>Machine Learning Deployment</b>	2:00 PM - 3:00 PM
	Room 4A

Productionizing your machine learning model to be used inside of a project at a hackathon is one of the most commonly faced challenges for hackers. This workshop covers how to deploy your model efficiently and how to monitor your machine learning model performance.

## How to Use Critical Design Methods to Hack Responsibly

2:00 PM - 3:30 PM

Room 4C

In this workshop, you will discover the essentials of “responsible innovation” and learn how to integrate critical design practices into your workflow. Rather than jumping directly to solutions and efficiencies, critical designers create time and space to consider topics like environmental footprint, inclusivity, and social or psychological impacts. In this lively 90-minute session, you will learn how to apply fun design methods to your hack projects, all for the sake of responsible innovation and tech for good.

## The Tea on Working for Startups ☕

3:00 PM - 4:00 PM

RBC Innovation Wing Room 3B

If you’re curious about what’s beyond big tech, frustrated with academia, or just excited to dive into unique niches, this one’s for you. From sourcing companies to vetting teams to interviewing, this workshop is a comprehensive speed-run of the best tips to help you.

## Hackathon Pitching 101

9:00 PM - 10:00 PM

RBC Innovation Wing Room 3A

Many people find demos and judging quite daunting. This workshop will lift the curtain on what to expect, how to create a great pitch, and even show you how to have fun while demoing your project.

# Sponsor API Workshops

## Saturday, September 17th

### Beginners guide to Ethereum with Scaffold-ETH 12:00 AM - 12:30 AM Room 4B

Get started building your first project on Ethereum with the best hackers toolkit: Scaffold-ETH. In this workshop, Kevin will guide you on how to publish your first smart contracts, execute your first transactions, and guide you through the best way to get started building in Web3.

**Develop a Quantum Machine Learning Classifier and a Better Quantum Computer with CANSOFCOM**      12:00 AM - 12:30 AM  
Room 4C

Join a team of scientists from CANSOFCOM in exploring methods and applications in quantum computing! At the workshop, you will learn the limitations with current quantum computers and how to optimize them, as well as how to develop a quantum-inspired machine learning classifier with variational circuits.

**Building a crypto Discord game in our JS**      12:30 AM - 1:00 AM  
Room 4A

Altura makes it possible for game developers to use the power of blockchain-backed assets without needing any web3 code. Join Altura to learn about their tools and infrastructure for game developers to seamlessly integrate web3 technology into their applications.

**Become a decentralized web developer with Sonr**      10:30 AM - 11:00 AM  
Room 4C

Curious about blockchain, web3, crypto, and/or all of the above? Want to learn how to build but not sure where to get started? Join experts from Sonr for tip and tricks on getting started as a developer in a new and emerging space.

**Build a RESTful API with CockroachDB Serverless and Python**      1:30 AM - 2:00 AM  
Room 4C

In this workshop, we'll walk you through getting started with CockroachDB Serverless and provide an introduction to SQL and ORMs. Then you'll learn from one of our many Waterloo alums how to build a RESTful API using Python. This workshop will be hands on, so bring your laptops. You'll leave with a working API powered by CockroachDB Serverless!

<b>How to become a 10x developer using the terminal and Warp</b>	1:30 AM - 2:00 AM
	Room 4A

In this workshop, we'll dive deep into terminal tips and tricks to increase your developer productivity. From beginners to terminal veterans, we'll have something for everyone. This workshop is brought to you by the terminal experts at Warp, a blazingly-fast terminal app for the 21st century. (Mac users are encouraged to download Warp before the workshop!)

<b>How to build an NLP app with Cohere API</b>	2:00 AM - 2:30 AM
	Room 5A

Cohere is an NLP toolkit that helps generate and analyze text to do things like write copy, moderate content, classify data, build a search engine, all at a massive scale. At the workshop, you will learn how to use our API to easily build machine learning into your application.

<b>AdHawk Eye Tracking API and Troubleshooting Workshop</b>	2:30 AM - 3:00 AM
	Room 4C

In this workshop, we'll present AdHawk's eye tracking system. We'll provide an overview of eye tracking, cover key aspects of the API, as well as how to troubleshoot your eye tracking solution.

<b>How to use location data with HyperTrack</b>	2:30 AM - 3:00 AM
	Room 4A

A deep dive on best practices for using location data and how to efficiently track user locations using HyperTrack.

<b>Ubisoft's Element of Surprise API Workshop</b>	9:00 AM - 9:30 AM
	Room 4A

Ubisoft invites you to a challenge of creativity and problem solving. Create a game that explores your idea of the unknown! Demonstrate your abilities to show us an element of surprise and take us on a mysterious journey. Our mentors will help you succeed by providing hands on demonstrations, documentation, and consultations along the way.

# Panels

## Saturday, September 17th

### Product Design Student Panel

10:30 AM - 11:30 AM

*RBC Innovation Wing Room 3A*

Interested in exploring product design? Come out to the Product Design Panel to hear the student panelists talk about their product design journey and give some tips on how to get started.

### Artificial Intelligence Panel

12:30 PM - 1:30 PM

*RBC Innovation Wing Room 3A*

Learn about the artificial intelligence field from industry leaders! Join Michael Amoako (Co-founder, Sonr) and Ivan Zhang (Co-founder & CTO, Cohere) to chat about their work in AI and the future of the space.

### Fireside Chat with Steve Woods (Partner & CTO, Inovia Capital)

2:30 PM - 3:30 PM

*RBC Innovation Wing Room 3A*

Join Steve Woods (Partner & CTO of Inovia Capital, formerly Google) for a conversation about getting started with your career in tech—and how entrepreneurship could be part of your journey.

# Meetups

## Saturday, September 17th

6:00 PM - 7:00 PM	<b>Design</b> Activities Room
6:30 PM - 7:30 PM	<b>2SLGBTQ+ Hackers</b> Empowerment Lounge
7:30 PM - 8:30 PM	<b>Game Development</b> Activities Room
8:00 PM - 9:00 PM	<b>Women in Tech</b> Empowerment Lounge
9:00 PM - 10:00 PM	<b>High School Hackers</b> Activities Room
9:30 PM - 10:30 PM	<b>Black in Tech</b> Empowerment Lounge
10:30 PM - 11:30 PM	<b>Data and Machine Learning</b> Activities Room
11:00 PM - 12:00 AM	<b>Hackathon Organizers</b> Empowerment Lounge

# Sunday, September 18th

12:00 AM - 1:00 AM	<b>Product Management</b>
	1st Floor Activities Room
12:30 AM - 1:30 AM	<b>International Hackers</b>
	Empowerment Lounge

## Tech Talks

### Saturday, September 17th

11:30AM - 12:30PM Room 5A	<b>Cohere: Large Language Models for Real-World Applications - A Gentle Intro</b>  Join us for an overview of the main intuitions behind LLMs. No prior knowledge is required!
3:30PM - 4:30PM Room 4C	<b>Intel: So You Want To Get Into Open Source Compiler Development</b>  Join us to look at trends in modern compiler development and give advice on how you can join the LLVM community.
1:00PM - 2:00PM Room 5A	<b>Sonr: Becoming a decentralized web developer</b>  Join experts from Sonr's for tips and tricks on getting started as a developer in a new and emerging space.
2:30PM - 3:30PM Room 5A	<b>Ubisoft: Animating Open Worlds</b>  Join Ubisoft's La Forge animators as they showcase some of their early results from researching systems and prototyping for new ways of animating open worlds.

# Career Development Sessions

Learn more about how you can work towards your career goals from our sponsors! Visit our gold sponsors' booths in Sponsor Bay on the 2nd floor of E7, sponsor Slack channels, or the online hosted version of this booklet for more details.

## Saturday, September 17th

9:00 AM - 10:00 AM  
Room 5B

### **ETHGlobal - Why now is the best time to be a Web3 Developer**

In this talk, Jacob from ETHGlobal will explain the Ethereum technology which is at the heart of the Web3 revolution and provide reasons and demos to share why he believes it to be the next technological frontier and why now is the perfect time to join the ecosystem.

12:00 PM - 1:00 PM  
Room 5B

### **RBC - Give Your Resume Main Character Energy**

Join Early Talent recruiters from RBC to create the best version of your resume! We'll break down what hiring managers are looking for on your applications, how to summarize your technical skills, and what makes a resume stand out in the crowd.

3:00 PM - 4:00 PM  
Room 5B

### **Cohere: Demystifying AI/ML Careers & Landing your next role!**

Join Cohere as we demystify career paths, and the skillsets needed to thrive in AI and ML roles. Our Engineers & Talent team will also be there to chat setting yourself for success, how to optimize your AI/ML job search, and the common interview mistakes to avoid!

# Judging

## Existing Stream

This year, we are introducing the option to come to Hack the North and work on a project that you've already started building out. While these projects aren't eligible for prizes, it's a great way to meet other people who are working on similar projects, learn from veteran hackers, and start talking about the cool things you're building with other people in tech!

Regardless of stream, everyone is eligible to showcase their work to other hackers at the project showcase at Engineering 7 (E7) pitch space on **Sunday, September 18 from 10:00 AM to 1:00 PM.**

Come out to see everybody's projects and win some exclusive swag!

## New Project Stream

We'll still be supporting the traditional hackathon experience and teams starting new projects will be able to submit their projects for judging following the following rules.

### Submission Rules and team eligibility:

- All code for your project must be written between **12:00 AM EST on Saturday, September 17, 2021, and 8:00 AM EST on Sunday, September 18, 2021.**
- All design assets for your project must be created between **12:00 AM EST on Saturday, September 17, 2021, and 8:00 AM EST on Sunday, September 18, 2021.**
- You must submit your project at [hackthenorth2022.devpost.com](https://hackthenorth2022.devpost.com) before **8:00am EST on Sunday, September 18** to be eligible to demo your project.

- It is permitted and recommended to install any necessary software in advance.
- It is permitted to plan your project out in advance.
- It is permitted to 3D-print parts or prepare other structural components for hardware projects in advance.
- Assembly of hardware projects in advance is not permitted.
- Plagiarism is not tolerated and any teams with plagiarized work will be disqualified.
- You may use any publically available libraries/packages/design assets.
- Please code with integrity! Final interpretation of these rules (including all rules on this page) is at the sole discretion of the organizers, and potential violations will be dealt with on a case-by-case basis.
- Finally, remember that your participation at the event is subject to the Hack the North Code of Conduct.

## Criteria

Wow Factor	<i>Does the project stand out?</i>
Technical ability	<i>How technically complex is the project?</i>
Originality	<i>Is the project new or unique?</i>
Design	<i>Does the project consider user experience?</i>

# Sponsors



Welcome everyone to Hack the North! ETHGlobal could not be more excited to be (finally) supporting this incredible weekend.

Put short: ETHGlobal is the best community for builders in Web3. We run the best hackathons in the industry, host dozens of technical educational summits, and connect our members with the best companies, investors, and opportunities for growth in their Web3 journey.

We're a small team of people like you, passionate about building and trying new things — most of our team is comprised of past Hack the North winners and organizers (including the co-founders!) and while we're excited about our work at ETHGlobal, we're passionate about the Ethereum ecosystem.

If you're interested in dipping your toe into Web3, this is a perfect time, and we're working hard to support you this weekend!

Join our workshop on Saturday at midnight in Room 4B which is going to be targeted at complete beginners and we'll be around all weekend to support your projects. As you build, keep in mind that the best three projects using built using Ethereum, L2s, and other Ethereum-native infrastructure (Sonr & Axelar count too!) qualify for prizes in \$ETH! 🏆

Whether you are interested in learning more about Ethereum/Web3, want to build on Ethereum this weekend, are looking for a career in Web3, want to argue with us that Web3 is a scam, take a selfie with the founders of Hack the North, or anything in between we'd love to meet you this weekend!

Happy hacking!

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You may already know that RBC is Canada's largest bank, with 89,000+ employees and 17 million clients globally. But did you know we are also one of Canada's largest tech employers? With over 10,000 employees working across different technical roles, our teams apply imagination, insight and cutting-edge technology to create solutions that lead to better experiences for our clients, colleagues and communities.

Tech @ RBC offers hundreds of student and new grad roles, with opportunities to learn, grow and work with purpose.

From Developers to Data Scientists, from Cyber Threat Hunters to AI and ML Specialists, we inspire the next generation of brilliant minds to Be What's Next.

If you're interested in exploring a broad range of exciting technology career paths, visit [jobs.rbc.com](https://jobs.rbc.com) or come speak with us at our Sponsor booth!

# co:here

Cohere is an AI startup founded in Toronto and backed by some of the world's most recognized AI luminaries with a mission to drive advancements in technology that will revolutionize how humans converse with machines.

Cohere is kickstarting a new chapter in machine learning by giving developers just like you access to natural language processing (NLP) powered by large language models. We want to help you build remarkable applications that will take us to places we can't imagine tomorrow. Cohere's platform can be used to generate or analyze text to do things like write copy for a blog post, moderate toxic content in gaming, categorize loads data and even summarize your assigned readings!

The Cohere team is so excited to be part of Hack The North this year! Please be sure to come chat with us at our booth.

# Photo Scavenger Hunt

The photo scavenger hunt is a fun activity and chance to explore Hack the North and what it has to offer. Form a team of up to 5 and complete a checklist of photos with your faces in them; complete all the items to win prizes (while supplies last)! When you've completed all the items, head over to the Help Desk on the first floor to collect your prize.

## Rules:

- You may participate in a group of up to 5 hackers attending Hack the North
- In order to qualify for a prize every member of the group must be in every photo
- All photos must be taken inside (or in the near vicinity) of E5/E7 during the duration of the event
- The following photos can all be taken at Hack the North! Check out the event schedule to find out when and where to take your photos.
- The deadline to redeem your prizes at the help desk is Sunday September 18th 1pm.

The following photos can all be taken at Hack the North! Check out the event schedule to find out when and where to take your photos.

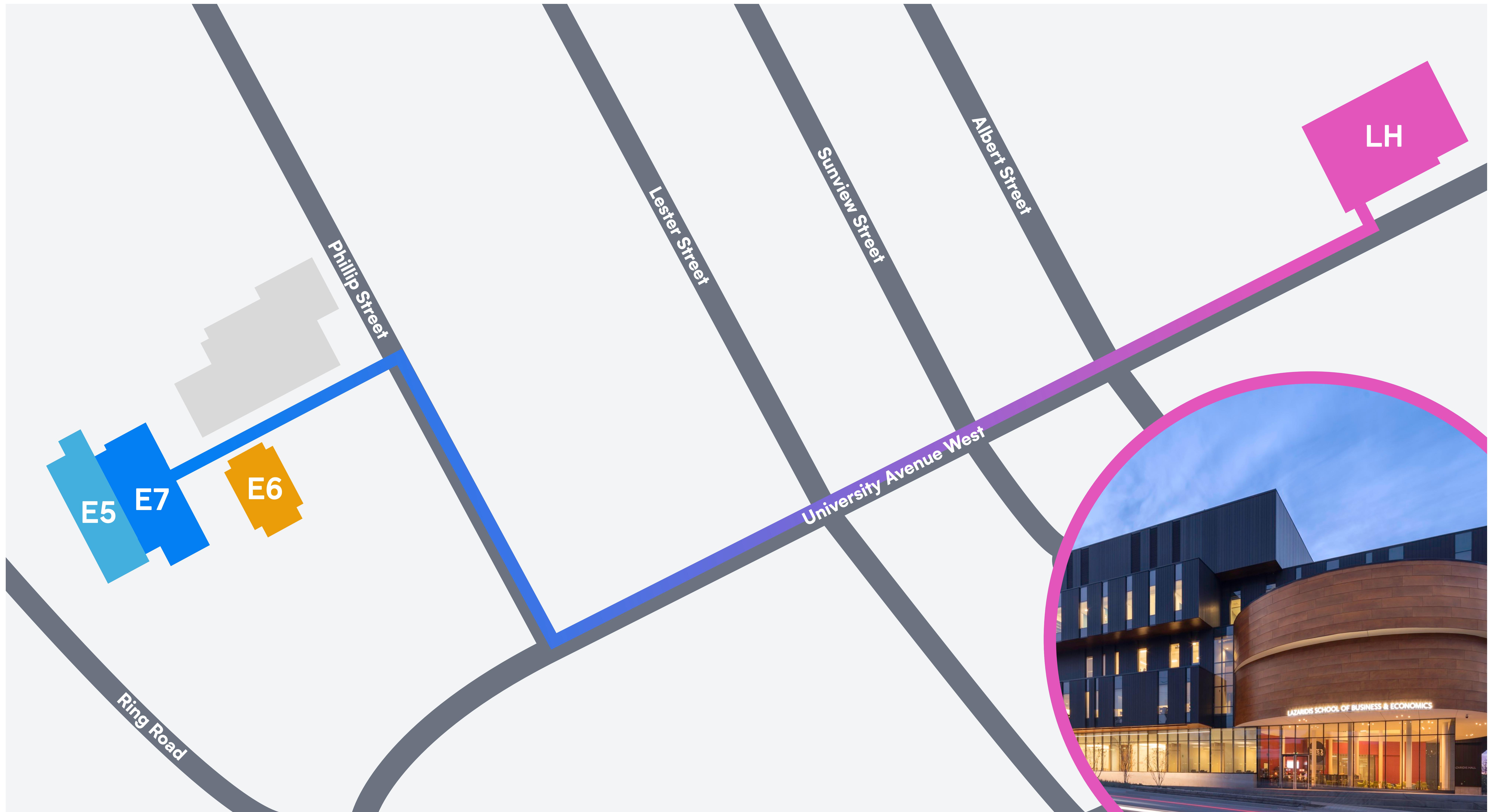
## Photo Scavenger Hunt Checklist

- a sponsor representative during Sponsor Bay
- your group spelling out “HTN” with your bodies in whatever way you want
- a workshop lead at a workshop you enjoyed
- everybody making a funny face in the Empowerment Lounge
- a mentor (they'll be hanging out at the Mentor Hub on the first floor)
- a Hack the North organizer (they'll be wearing black fleece jackets!)
- a Hack the North gear logo — tag @hackthenorth on your IG story or any other social media platform
- a sunrise or sunset!



# Route

## E7 to Opening and Closing Ceremonies



**E5** Engineering 5

**E7** Engineering 7

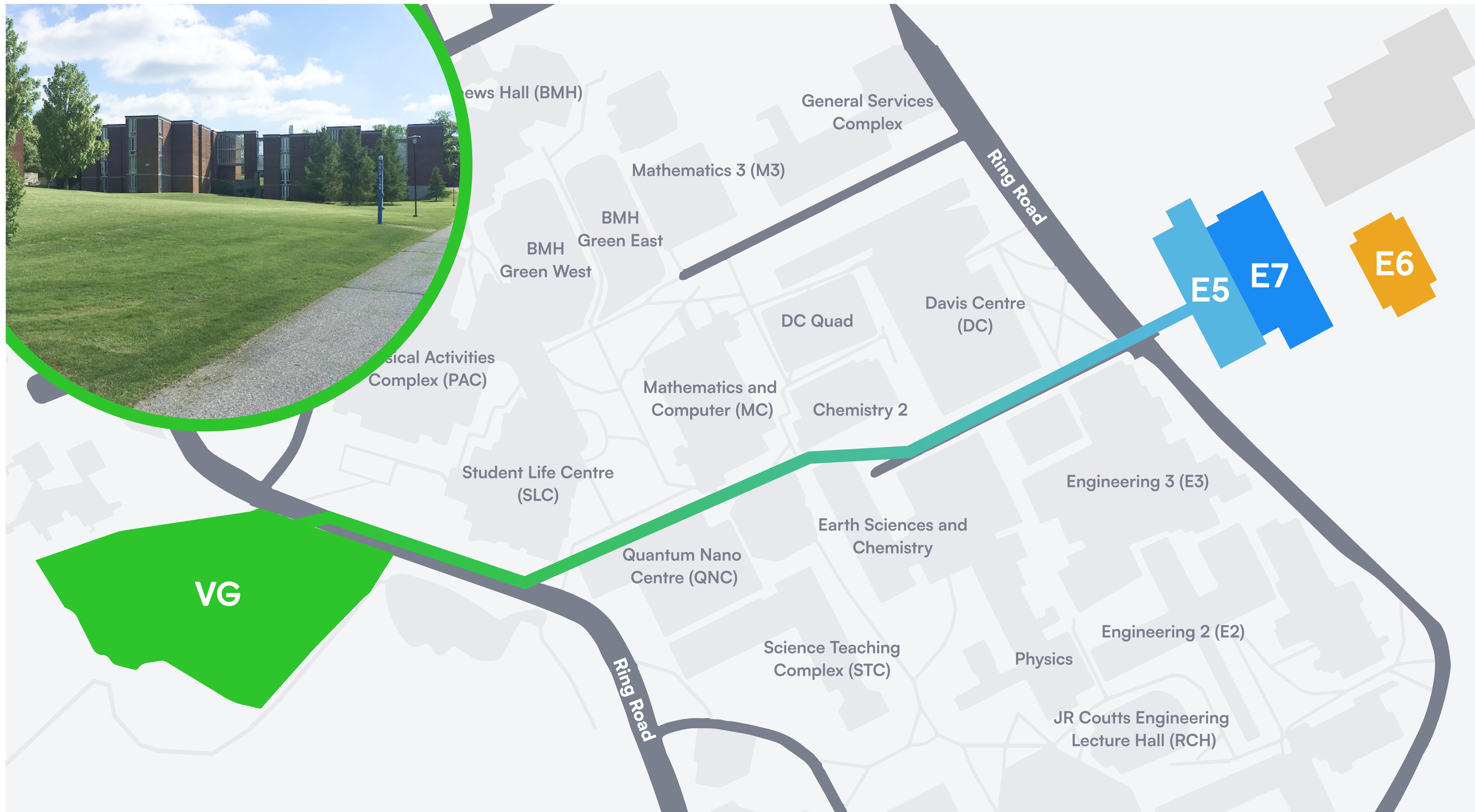
**E6** Engineering 6

**LH** Lazaridis Hall

**Route to Ceremonies**

# Route

## E5 to V1 Green



**E5** Engineering 5

**E7** Engineering 7

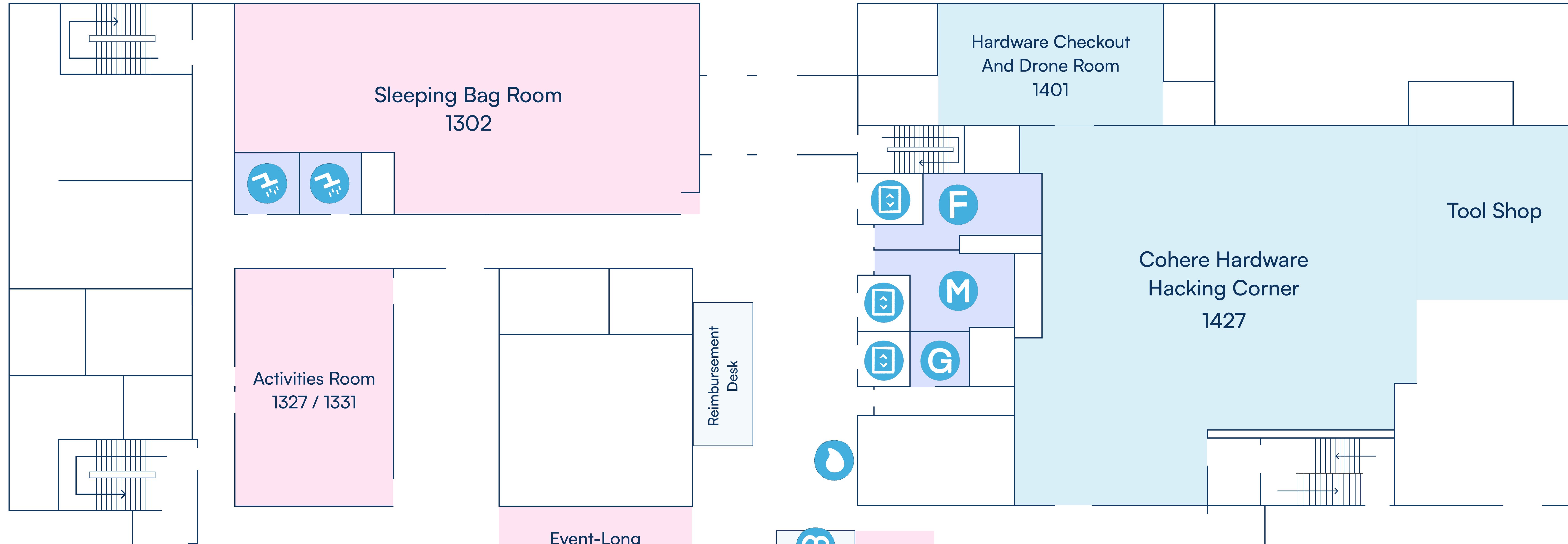
**E6** Engineering 6

**VG** V1 Green

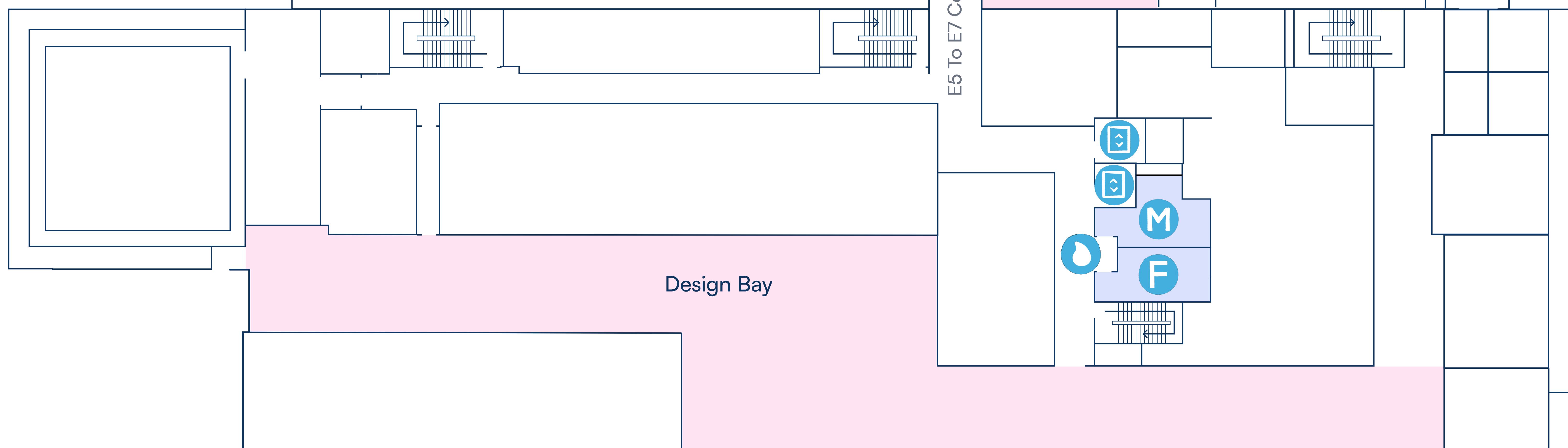
**Route to Bubble Soccer**

## Engineering 7

E7 Main Entrance →



## Engineering 5



Elevator



Female Washroom



Male Washroom



Water Bottle Filling Station



Gender Neutral Washroom

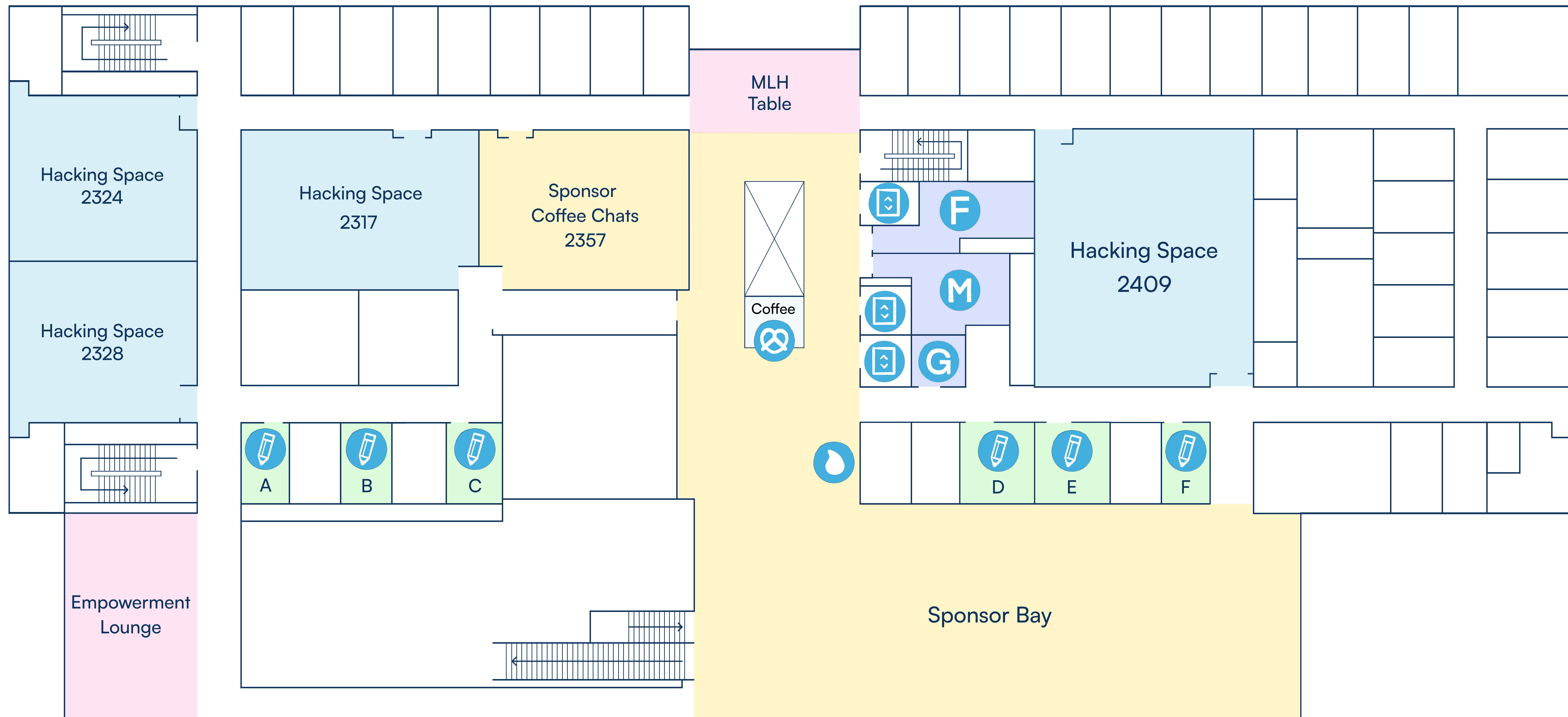


Shower

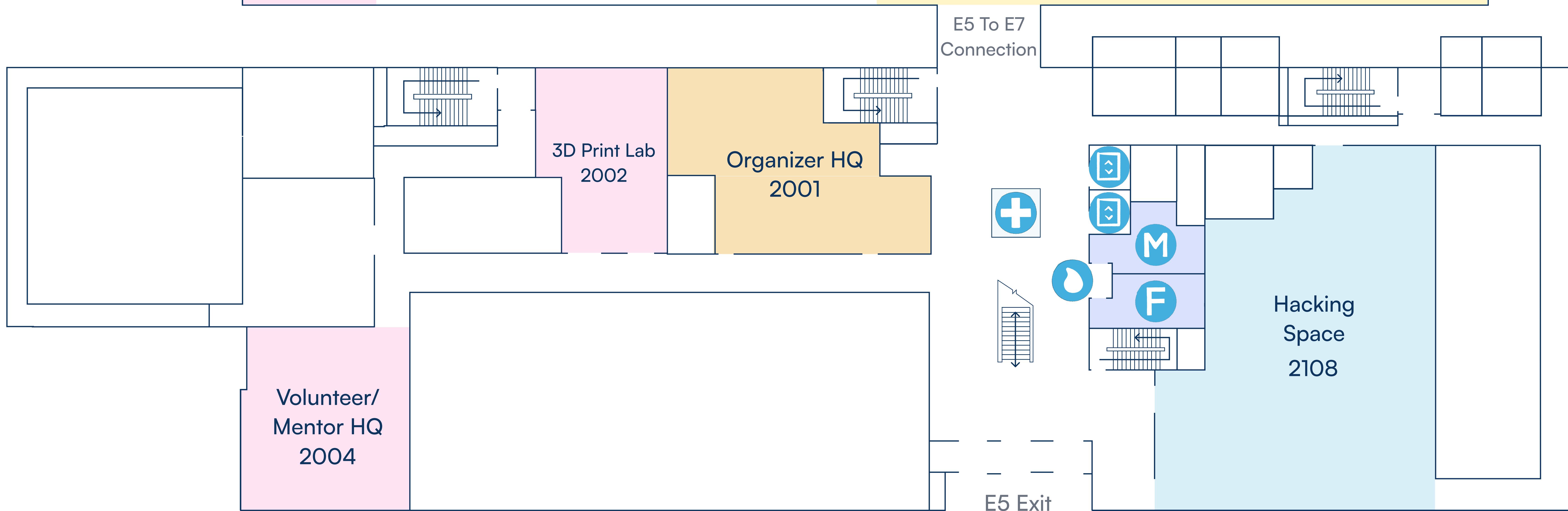


Snack Table

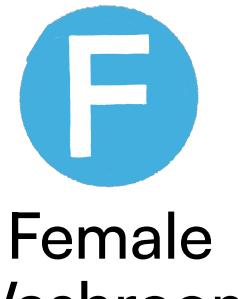
## Engineering 7



## Engineering 5



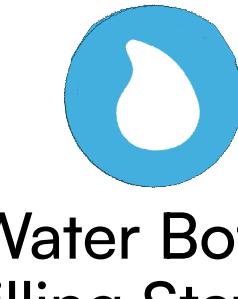
Elevator



Female Washroom



Male Washroom



Water Bottle Filling Station



Gender Neutral Washroom



Judging Room



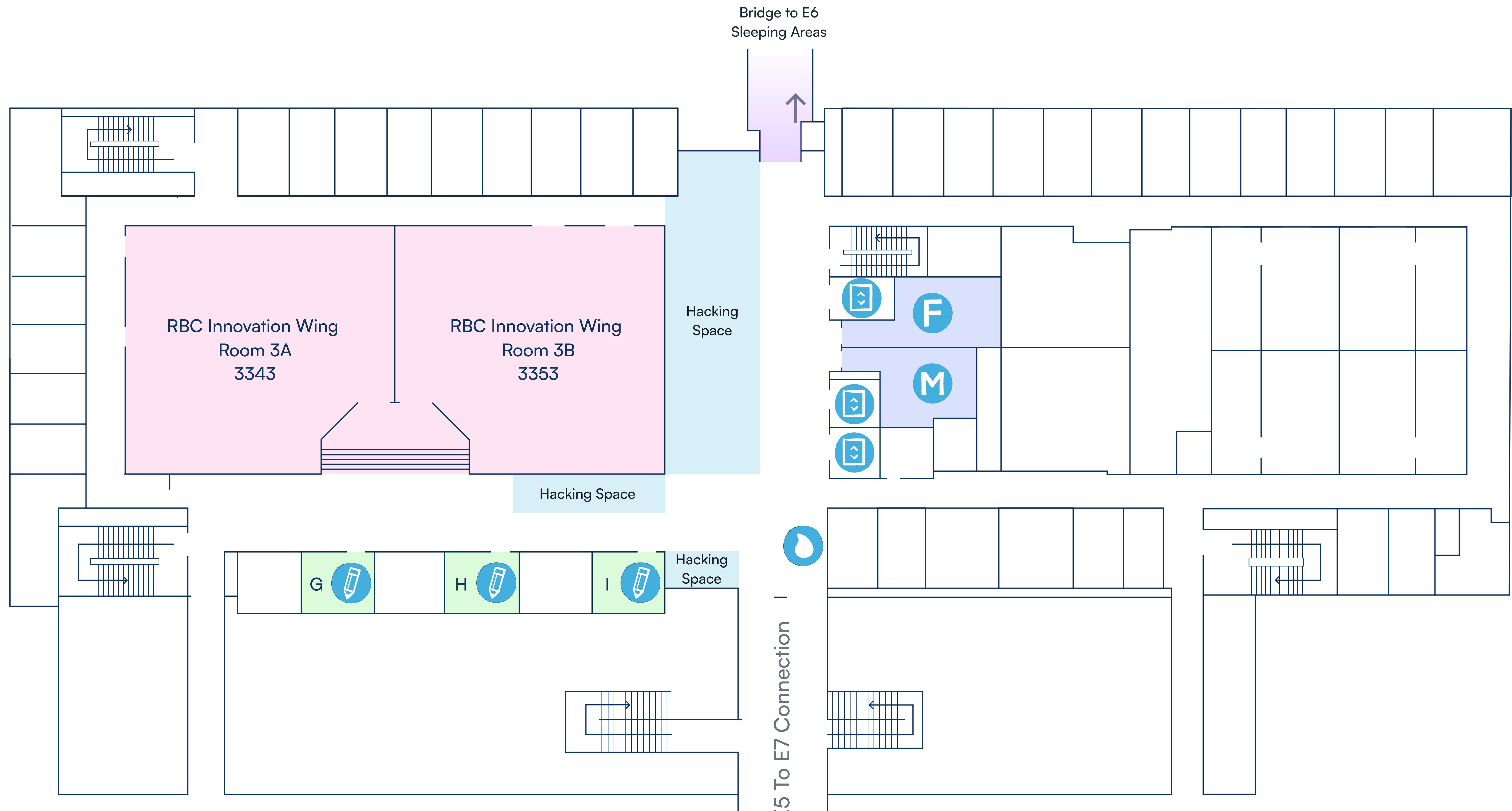
Snack Table



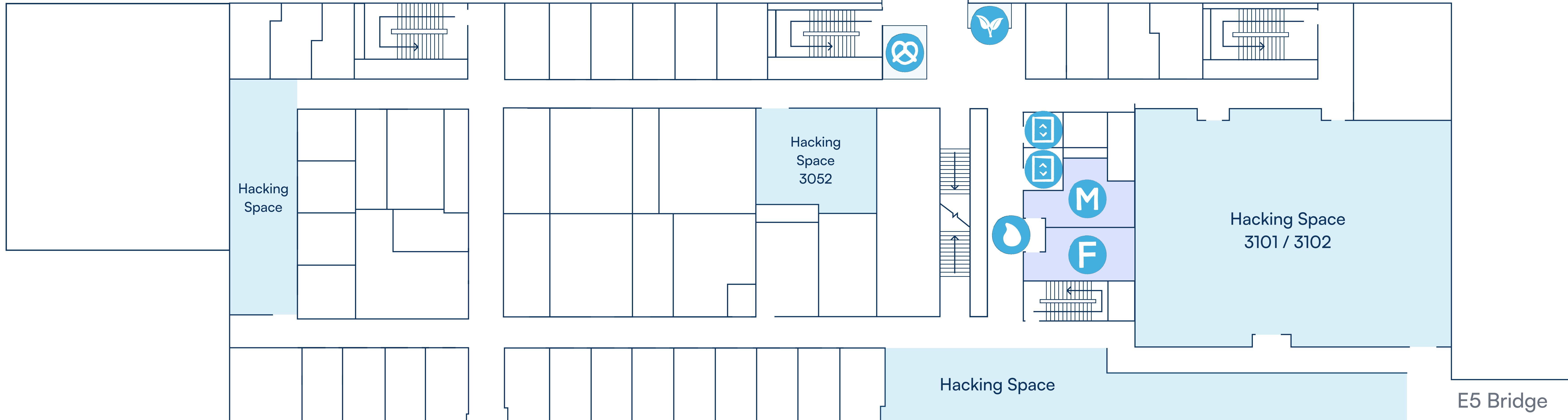
First Aid Table

# E5 + E7 Floor 2

## Engineering 7



## Engineering 5



Elevator



Female Washroom



Male Washroom



Water Bottle Filling Station



Gender Neutral Washroom



Judging Room



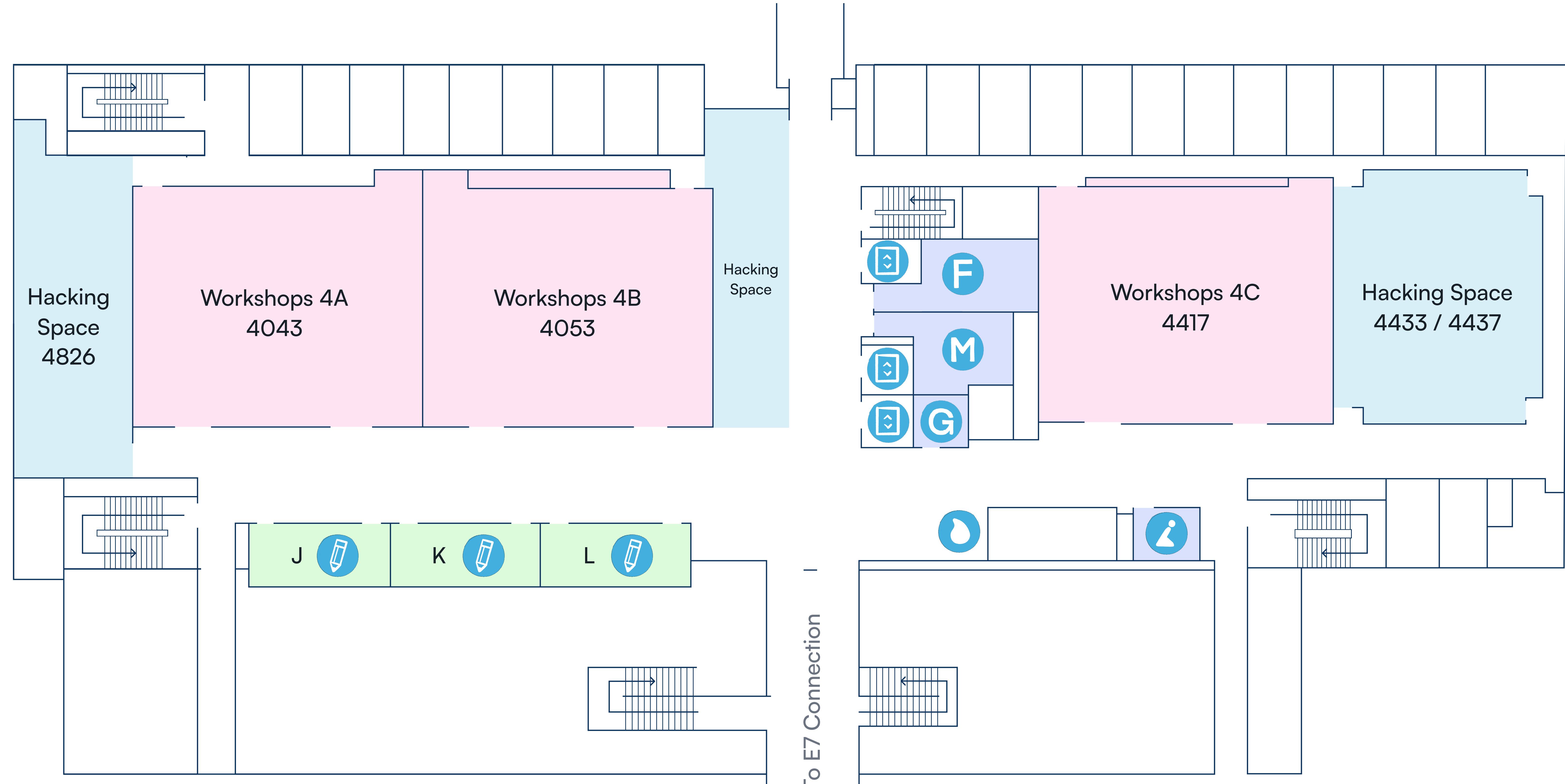
Snack Table



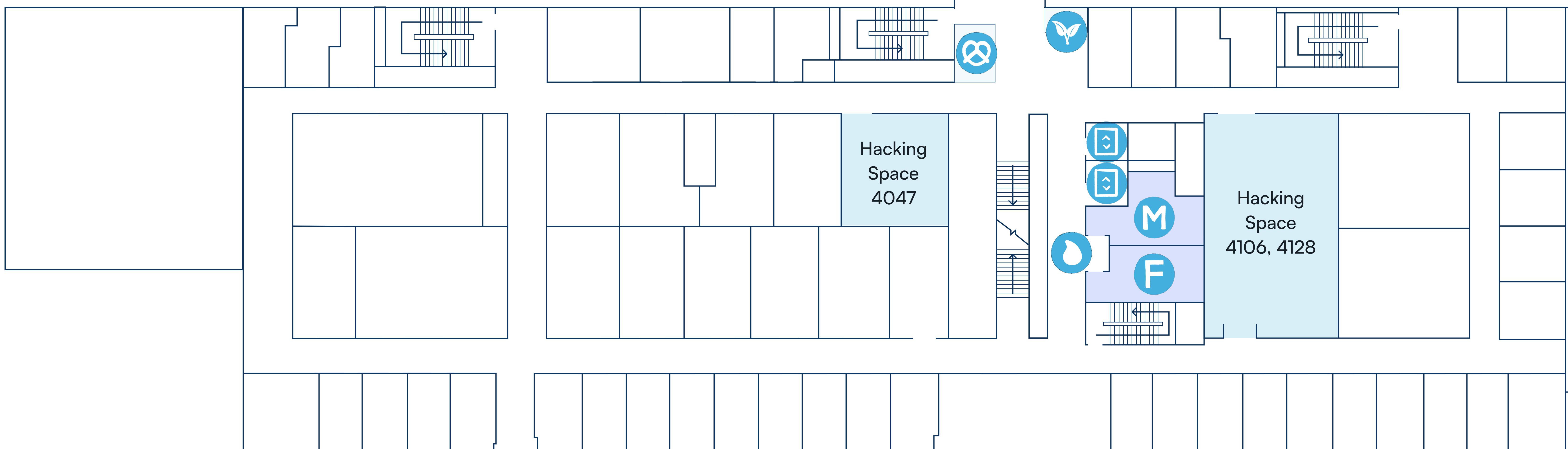
Compost

# E5 + E7 Floor 3

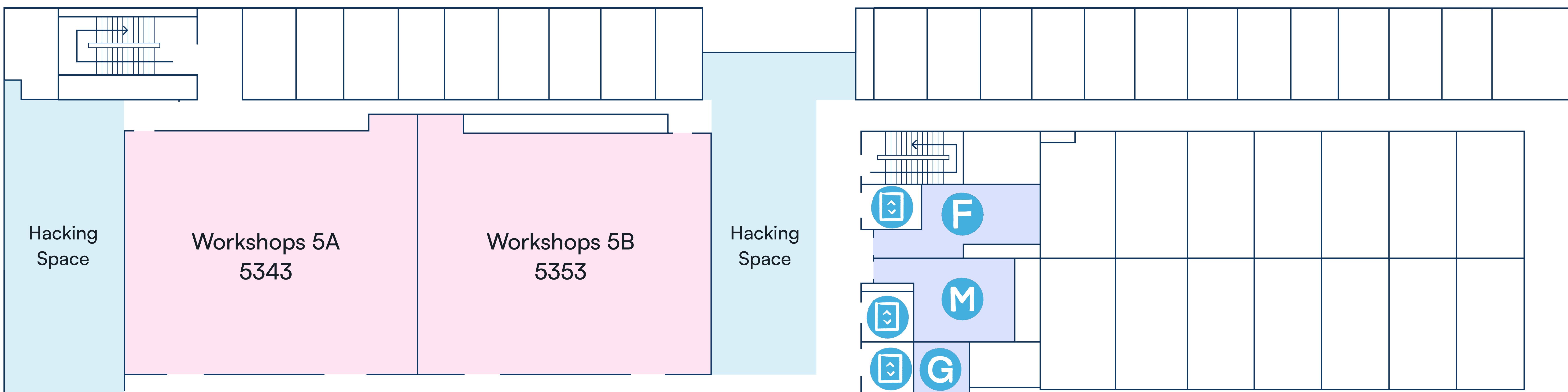
## Engineering 7



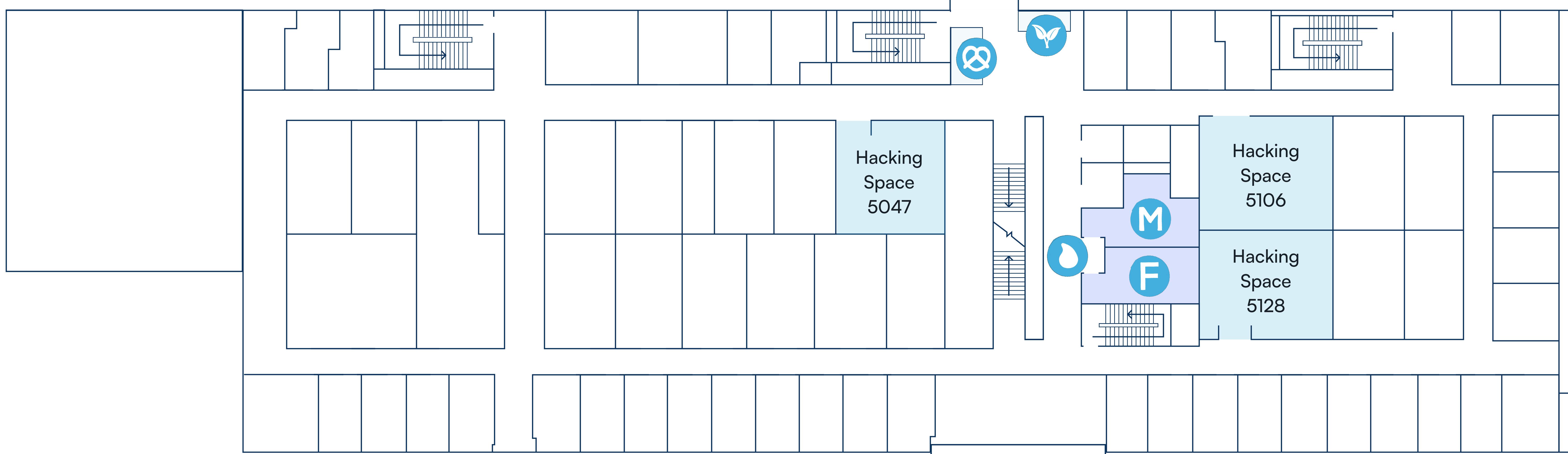
## Engineering 5



## Engineering 7



## Engineering 5



Elevator

F  
Female Washroom

M  
Male Washroom

Water Bottle Filling Station

G  
Gender Neutral Washroom

Snack Table

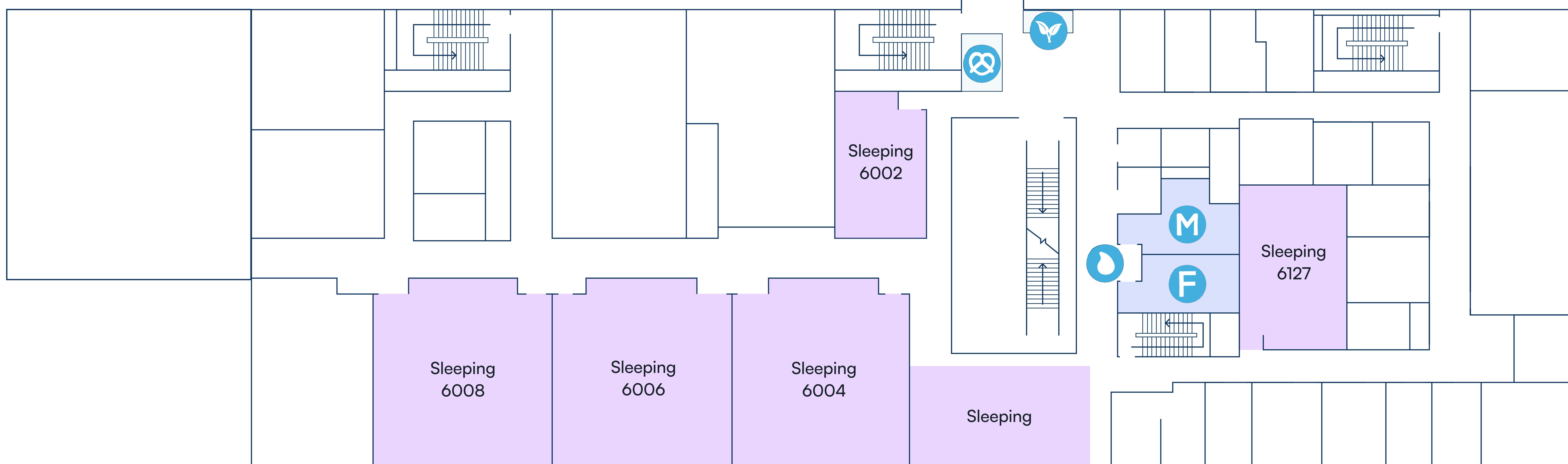
Compost

**E5 + E7 Floor 5**

## Engineering 7



## Engineering 5



Elevator

F  
Female Washroom

M  
Male Washroom

Water Bottle Filling Station

Snack Table

Compost

**E5 + E7 Floor 6**

