WA Health Hackathon

2023 | Mentor Brochure

Improving Western Australian healthcare through technology & innovation.

REGISTER NOW

Begins October 9th.

WA DATA SCIENCE
INNOVATION HUB
Powering an AI Future

Government of **Western Australia**
Department of **Health**

Microsoft

WA Life Sciences
Innovation Hub

Government of **Western Australia**
North Metropolitan Health Service

WA Health Hackathon 2023

BACKGROUND

Thank you for volunteering your time to be a mentor at the WA Health Hackathon 2023. This year the Hackathon is being organised by the WA Data Science Innovation Hub (WADSIH) and the Department of Health (DoH). The Hackathon will focus on six Challenges that will improve the health outcomes for all of Western Australia if they're solved. Participating teams will be provided with cutting-edge synthetic data, and you will provide them with expert support to help them develop ideas and prototype their solutions. The winning team's will be eligible for major prizes as well as ongoing support to move their solution forward.

Thank you again for your commitment to a good cause. Your role is critical for our teams to understand the day-to-day intricacies of the Challenges and you will help them make much more impactful solutions.

WHAT

There are six Challenges that will be put forward at the Hackathon. Your role as a mentor is to be an expert about one (or more of these Challenges). You will be supported by at least one other mentor who is an expert on the same Challenges as you as well as a relevant data custodian and the Organising Committee.

Participating teams are encouraged to ask you questions about how you see these Challenges present themselves in your day-to-day work. They may also ask you questions about what the datasets contain and how they can approach the problem. Any information, stories or guidance you can provide will be valuable for our participants.

The six Challenges are:

How can we use our data to help improve patient flow through Emergency Departments in WA public hospitals without compromising care quality?

How can we improve our surgical and operational planning to reduce patient wait times?

Hospitals are often at the end of a long chain of service interactions. How could we use non-health data feeds and optimisation technologies to improve our operational planning for Emergency Departments?

A cancer diagnosis is a significant moment for a patient and their support network. It often leads into a long period of treatment and support. Prevention and early detection play a big role in positive outcomes. How could we better track and support cancer patients through this journey? Can we pre-emptively identify potential patients through target interviews and other ongoing, cancer detection programs?

Hospitals are complex systems with data being transferred from patient to

nurse, to doctor, to surgeon, to GP and back to the patient — all through a variety of technologies. With new technologies emerging every day how could we use artificial intelligence and machine learning to increase efficiencies in clinical practice?

Our patients are at the heart of all the health system — we are always trying to do better for you. Using modern digital tools and thinking how can we provide patients with better ways to interact with their care process and provide us feedback?

WHEN AND WHERE

The WA Health Hackathon will occur over the second week of October 2023. Access to the supporting data will be opened at the Launch on Monday 9 October. On the evenings of the Tuesday 10, Wednesday 11 and Thursday 12 of October participants will be invited to attend workshops on their chosen Challenge. These workshops will be attended by the Challenge Owners, expert mentors, data custodians and senior stakeholders. These workshops are intended to be a great opportunity for participants to explore and understand their Challenges. The Launch and Workshops will be held at Curtin Technical School, 139 St Georges Terrace, Perth, WA.

On Saturday 14 and Sunday 15 October the Hackathon will be held at the Innovation Centre Perth, Curtin University, Bentley Campus. This Hackathon is intended to provide teams with a collaborative space to build and test their prototypes.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9 Launch	10 Workshop 1 Challenges 1 and 2	11 Workshop 2 Challenges 3 and 4	12 Workshop 3 Challenges 5 and 6	13	14 Hackathon Day 1	15 Hackathon Day 2
16	17	18	19 Final Pitches and Awards	20	21	22

As 13:00 on Sunday 15 October the Hackathon will stop and the pitches begin. Teams will have four minutes to pitch their solutions to a panel of judges. A shortlist of the five most promising solutions will be invited to pitch their solution at the Finale. Shortlisted teams are encouraged to keep working on their solutions and finetuning their pitch. On the evening of Thursday 19 October the Shortlisted Teams will have five minutes (with an additional two minutes for questions) to pitch their Solution. The Finale Judging Panel will then award the prizes to the very deserving winners!

EXPECTATIONS OF MENTORS

We do not expect you to attend all these events. We appreciate that you are volunteering your time and that you have a busy life outside of work — we will do whatever we can to fit in with your schedule.

If possible, we'd love to have you attend one of the Workshops (from 17:00 to 19:00 on either Tuesday, Wednesday or Thursday.) We'd also love to have you attend the Hackathon for one-or-two hours on either the Saturday 14 or Sunday 15 of October. You are welcome to attend for as long as you can.

During the Hackathon Week we will also have a collaborative communication tool (similar to Microsoft Teams) available for participants to use. We will be encouraging participants to ask questions through that tool so that mentors can provide responses, even if a mentor is not there. If you'd like to assist in answering questions on this tool please let us know.

FINAL NOTES

If you would like to be a Mentor please make sure to reach out to Tim Sondalini (tim.sondalini@curtin.edu.au). Tim will record your interest and he will work with you to identify when you can attend. Tim can also answer any further questions you may have.

Images from the previous WA Emergency Hackathon 2023.