



BIODESIGN BOOTCAMP: DEEP DIVE INTO HEALTHTECH INNOVATION WITH AN END IN MIND

Date & Time

Run 1

Monday - Friday 29 Jul 2024 - 2 Aug 2024 09:00 am - 06:00 pm

Run 2

Monday - Friday 24 Feb 2025 - 28 Feb 2025 09:00 am - 06:00 pm

Location

To be informed upon enrolment

Course Fees

(Inclusive of GST)

Original Price SGD 5,722.50

After SSG Subsidies SC < 40yo & SPRs SGD 1,716.75

SC ≥ 40yo & Enhanced training support for SMEs SGD 666.75

The Biodesign Bootcamp aims to equip health and medtech innovators, including healthcare professionals, researchers, product innovation engineers, strategic innovation managers and entrepreneurs with knowledge relating to multiple competencies under the Health and Medtech Innovation Skills and Competencies well as Design Thinking Practice Technical Skills and Competencies.

This workshop will provide learners with perspectives encompassing design thinking, product development, regulatory, intellectual property, clinical trial planning, business planning and market access.

By the end of the workshop, serious health & medtech innovators will be able to internalize and apply the validated Biodesign framework of Identify, Invent and Implement towards structuring any new health and medtech innovation projects from a needscentric and holistic view with an eye towards commercialization and adoption.



or click here.

How to register?

As a self-sponsored participant, simply scan the QR Code and search for the course name! For more information, refer to our registration guide here/bases/.

If your company is sponsoring your participation upfront, please email us at **sbenquiry@hq.a-star.edu.sg** for registration instructions.

COURSE AGENDA

Biodesign Bootcamp:

Deep Dive Into HealthTech Innovation With An End in Mind

Learning Outcomes:

By the end of the workshop, serious health & medtech innovators will be able to achieve the following enabling learning outcomes according to the relevant innovation skill and competency from the innovation training whitepaper listed below:

Product Development Competency (Basic):

- Demonstrate ability to apply the Biodesign Framework to unmet healthcare/clinical needs and design a needs specification document based on focused research and stakeholder engagement.
- Apply ideation strategies to brainstorm possible healthcare solutions and where it would meet gaps in the patient/user journey and choose and screen based on a fundamental understanding of IP, regulatory, business and reimbursement models
- Define and prepare prototyping plan and early risk assessment.
- Assess technology risks and develop functional proof-of-concept prototypes, and determine what tests are required to de-risk the project
- Collaborates with different internal stakeholders (e.g., engineers and scientists) to define product requirements, develop prototype and validate results.

Regulatory Competency (Basic)

• Conduct preliminary research to determine regulatory class of a healthcare product as medical device, drug, combination or IVD.

IP Competency (Basic)

- Explain basic IP anatomy, types of IPs, IP regulations, IP lifecycle, costing and types of IP instruments
- Apply principles of patentability and freedom to operate.
- · Prepare a preliminary prior art search to evaluate healthcare innovation idea to inform feasibility

Business Planning Competency (Basic)

- Prepare a preliminary market analysis (top-down and bottom up)
- · Apply basic presentation and pitching proficiency
- Has an overview of fundraising and investment landscape (i.e., public and private funding sources and options

Clinical Trial Competency (Basic)

• Apply basics of clinical trial planning: overview, pros and cons of study designs (e.g., RCT), clinical trial ethics guidelines (e.g., HBRA/IRB), timeline of different clinical trial stages, basic statistics concept, and implication of clinical endpoints used

Market Access Competency (Basic)

· Apply principles of coding, coverage and payment

COURSE AGENDA

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Day One

0900H - 0930H 0930H - 1000H 1000H - 1030H 1030H - 1130H 1130H - 1200H 1200H - 1300H 1300H - 1330H 1330H - 1430H 1430H - 1500H 1500H - 1530H 1530H - 1630H

Session 1: Opening and Introduction
Session 2: Overview of workshop
Session 3a: Researching on Needs
Session 3b: Filling up of DSTM worksheet
Session 4: Need Criteria
Lunch
Session 5a: Concept Generation / Initial Concept Screening
Session 5b: Brainstorm!
Session 6: Overview of Concept Screening
Break
Session 6a: Concept Screening worksheets
Session 7: Debrief

Day Two

0900H - 0930H 0930H - 1000H 1000H - 1030H 1030H - 1130H 1130H - 1300H 1300H - 1330H 1330H - 1430H 1430H - 1500H 1500H - 1530H 1530H - 1630H 1630H - 1700H

Session 8: Needs presentation

Session 9: Introduction to DSTM template

Tea Break / Class self-introduction

Session 10: Asian Case Study

Lunch + Session 9a: Need Research

Session 11: Preparation for Need Specification exercise **Session 12:** Need review and development of need criteria

Session 12a: Sharing of Need Criteria

Tea Break

Session 13: Concept Generation and Initial Concept Selection

Session 14: Concept development and debrief

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Day Three

0900H - 0930H 0930H - 1000H 1000H - 1030H 1030H - 1100H 1100H - 1200H 1200H - 1300H 1300H - 1330H 1330H - 1430H 1430H - 1500H 1500H - 1630H 1630H - 1700H Session 15: Review of Day 2 and Opening

Session 16: Concept sharing on what was developed in Day 2

Tea Break / Class Self-introduction **Session 17a:** IP Fundamentals

Session 17b: IP in Asia

Session 17c: IP Exercise + Lunch

Session 18a: Regulatory Fundamentals **Session 18b:** Regulatory Affairs in Asia

Session 18c: Regulatory Exercise + Tea Break **Session 19a:** Business models innovation in Asia

Session 19b: Business models exercise

Session 20: Medtech Innovation in Asia: Validating Needs and concepts

Day Four

0900H - 0930H	Session 21:
	Concept Exploration
	and Testing
0930H - 1000H	Session 21b:
	Prototype Planning
1000H - 1030H	Tea Break / Energizer
1030H - 1100H	Session 21c:
	Presentation of prototype
1100H - 1130H	Session 22a:
	Reimbursement Fundamentals
1130H - 1230H	Session 22b:
	Market Access to China
1230H - 1300H	Lunch
1300H - 1330H	Session 23:
	Final Concept Selection
1330H - 1400H	Session 24:
	Recap and Next Steps
1400H - 1500H	Session 25:
	R&D Strategy, Design Control
1500H - 1530H	Tea Break
1530H - 1600H	Session 26:
	Clinical trials fundamentals
1600H - 1700H	Session 27:

Case studies of clinical trials

Day Five

0900H - 0930H	Session 28:
	Ops Plan and
	Financial Modeling
0930H - 1030H	Session 29:
	Implementation in Asia
1030H - 1100H	Session 30:
	Funding landscape
1100H - 1200H	Session 31:
	Preparation for
	presentation
1200H - 1300H	Lunch
1300H - 1400H	Session 31:
	Preparation for
	presentation
1400H - 1600H	Session 32:
	Presentations
1600H - 1700H	Session 33:
	Fireside Chat
1700H - 1730H	Session 34:
	Closing

UPCOMING WORKSHOPS

Our courses cover a wide range of topics in the HealthTech and MedTech industry and are designed for professionals looking to up-skill or re-skill themselves in the healthcare innovation space.

Dates

Biodesign Bootcamp:

Run 1: 29 Jul - 02 Aug 2024 Run 2: 24 - 28 Feb 2025 Deep Dive into HealthTech Innovation with an End in

Run 1: 04 Sep 2024 **Design Thinking for Healthcare Innovation:**

Run 2: 15 Jan 2025 An Overview

An Introduction to Product Development and Quality Run 1: 27 Sep 2024 Run 2: 26 Mar 2025 Management Systems for Health and MedTech

Innovations

Run 1: 27 - 29Nov 2024 **Business Model Innovation for**

Need

Business Implementation for Health and MedTech: Run 1: 04 - 05 Dec 2024

Project to Market Overview

Healthcare Innovations

Run 1: 12 - 13 Feb 2025 **Design Thinking for Healthcare Innovation:** Focusing on Identifying and Inventing for the Unmet

> Health and MedTech Project Management + Run 1: 12 Mar 2025

Contact Us For More Information:





