



Biodesign Bootcamp: Deep Dive Into HealthTech Innovation With An End in Mind

Date & Time

RUN 1

Monday - Friday
01 - 05 August 2022
09:00 am - 06:00 pm

Workshop Location

Infuse Theatre, FP1, Connexis
South, Level 14
1 Fusionopolis Pl, Singapore
138632

Course Fees

(inclusive of GST)

Original Price

SGD 5,617.50

After SSG Subsidies

SC < 40yo & SPRs
SGD 1,685.25

SC ≥ 40yo & Enhanced training
support for SMEs
SGD 635.25

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 whitepaper](#) as 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 needs-centric and holistic view with an eye towards commercialization and adoption.

How to register?

Simply scan the QR Code and register or use this link:
https://bit.ly/SB_Bootcamp_Registration

Should you encounter any issue, please email us at
sbenquiry@hq.a-star.edu.sg.





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Course Agenda

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

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Course Agenda

Day One

0900H - 0930H	Session 1: Opening and Introduction
0930H - 1000H	Session 2: Overview of workshop
1000H - 1030H	Session 3a: Researching on Needs
1030H - 1130H	Session 3b: Filling up of DSTM worksheet
1130H - 1200H	Session 4: Need Criteria
1200H - 1300H	Lunch
1300H - 1330H	Session 5a: Concept Generation / Initial Concept Screening
	Session 5b: Brainstorm!
1330H - 1430H	Session 6: Overview of Concept Screening
1430H - 1500H	Break
1500H - 1530H	Session 6a: Concept Screening worksheets
1530H - 1630H	Session 7: Debrief
1630H - 1700H	

Day Two

0900H - 0930H	Session 8: Needs presentation
0930H - 1000H	Session 9: Introduction to DSTM template
1000H - 1030H	Tea Break / Class self introduction
1030H - 1130H	Session 10: Asian Case Study
1130H - 1300H	Lunch + Session 9a: Need Research
1300H - 1330H	Session 11: Preparation for Need Specification exercise
1330H - 1430H	Session 12: Need review and development of need criteria
1430H - 1500H	Session 12a: Sharing of Need Criteria
1500H - 1530H	Tea Break
1530H - 1630H	Session 13: Concept Generation and Initial Concept Selection
1630H - 1700H	Session 14: Concept development and debrief

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Day Three

0900H - 0930H	Session 15: Review of Day 2 and Opening
0930H - 1000H	Session 16: Concept sharing on what was developed in Day 2
1000H - 1030H	Tea Break / Class Self introduction
1030H - 1100H	Session 17a: IP Fundamentals
1100H - 1200H	Session 17b: IP in Asia
1200H - 1300H	Session 17c: IP Exercise + Lunch
1300H - 1330H	Session 18a: Regulatory Fundamentals
1330H - 1430H	Session 18b: Regulatory Affairs in Asia
1430H - 1500H	Session 18c: Regulatory Exercise + Tea Break
1500H - 1600H	Session 19a: Business models innovation in Asia
1600H - 1630H	Session 19b: Business models exercise
1630H - 1700H	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.

Design Thinking for Healthcare Innovation: An Overview

RUN 1: 04 July 2022

RUN 2: 16 January 2023

Biodesign Bootcamp:

Deep Dive into HealthTech Innovation with an End in Mind

RUN 1: 01 - 05 August 2022

RUN 2: 20 - 24 February 2023

An Introduction to Product Development and Quality Management Systems for Health and MedTech

RUN 1: 03 October 2022

RUN 2: 12 March 2023

Design Thinking for Healthcare Innovation: Focusing on Identifying and Inventing for the Unmet Need

RUN 1: 17 - 18 October 2022

RUN 2: 03 - 04 April 2023

Business Model Innovation for Healthcare Innovations

14 - 16 November 2022

Business Implementation for Health and MedTech:

Project to Market Overview

01 - 02 December 2022

**Contact Us For
More Information :**

 www.a-star.edu.sg/sb

 SBenquiry@hq.a-star.edu.sg



or click [here](#).

