A Deep Dive into Healthcare Entrepreneurship

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DHIVE Summer 2022

Information Session
Apr 1, 2022
Agenda

- Program Overview
- Summer Program
- Track Introduction
- Application Information
- Q&A
Program Overview
MIT DHIVE [dīv]
Dive in Healthcare Innovation and Venture Exploration

Promote and facilitate MIT student-led entrepreneurship focused on health care-related challenges

- Separate tracks focused on a targeted healthcare problem
- Sponsored internships over IAP and summer
- Educational talks/materials by domain experts
- Entrepreneurship-focused workshops and mentorship
- Continuation in Sandbox Fall/Spring as DHIVE tracks
Our Program So Far...

**Summer 2021**: piloted Long Covid & Lyme summer internship program

- 10+ expert talks on Long Covid/Lyme + entrepreneurship workshops & mentorship; 5 teams
- Fall 2021: Continued with an energizing showcase & networking event; 11 teams in Sandbox - Long Covid & Lyme Track

**IAP 2022**: Launched DHIVE with 3 tracks

- 20 expert talks, entrepreneurship workshops & mentorship; 13 teams (50 students)
- Spring 2022: 2 DS teams; 1 IBD team; 8 Long Covid&Lyme in Sandbox
Summer Program
DHIVE Summer 2022 Overview

8-week: **June 6 - July 29**

- Dive into one of the targeted healthcare problems
  - Expert talks/recordings and Q&A sessions
  - Access to a rich network of experts, clinicians, and entrepreneurs.
- Opportunity to connect and form teams
  - Connect with the current teams and join
  - Ideate and form new teams
- Learn about Entrepreneurship
  - Lean canvas business model and assumption framework
  - Spark Customer Discovery workshop
  - Mentorship from seasoned experts
Expectations - All participants

- Attend the kickoff session and weekly DHIVE group meetings
- Actively attend expert talks, workshops, and mentor sessions
- Engage in ideation with other participants and join/form teams
- Perform 12+ customer interviews as a team
- Team presentation and report at the final session

Presenting teams are guaranteed at least $1k funding award to continue working on their ideas in Sandbox in the Fall
Track Introduction
DHIVE Tracks for Summer 2022 Program

- **Long Covid & Lyme Disease**
- **Down Syndrome & Associated Disabilities**
- **Inflammatory Bowel Disease**
- **Catalyst Health-Tech Innovation**
  - Birth Control and STIs
  - Reducing the Risk of Opioid Addiction
  - Reducing Medication Errors
Long Covid & Lyme Track - Focus Area

- Data collection - e.g. platforms or technologies to acquire, collect or bring together data
- Disease Prevention, Diagnostics & Therapeutics
- Surveillance technologies - e.g. tick and tick-borne pathogen surveillance
- Patient stratification - e.g. to identify patients who have higher chance of developing a chronic condition
- Monitoring & Patient awareness

See current teams:
https://sandbox.mit.edu/dhive-teams
Down Syndrome Track - Focus Area

Seeking innovating solutions for Down Syndrome and Associated Disabilities (e.g. Sleep Apnea and Alzheimer):

- Improving muscle tone and physical ability and activity
- Improving cognitive ability
- Improving communication ability
- Enhancing independent living ability
- Improving health

See current teams: https://sandbox.mit.edu/dhive-teams
LCL and DS Track - Specific Expectations

Expectations:

▪ Review all DS/LCL Track pre-recorded educational materials
▪ Attend Q&A and new expert sessions
▪ Brainstorm, ideate and identify a problem/unmet need

Deliverable

▪ Final presentation and report including a clear definition of problem statement/unmet need, summary of market research (minimum 12 interviews), an outline of proposed solution and next steps.
Predicting flare ups in patients suffering from IBD

A N=100 patient trial is currently underway, collecting the pilot data that will enable advance prediction of IBD flare ups. Current implementation of IBDTracker includes a mobile app, microbiome sequencing, biomarker testing, and a wearable device.

**Goal:** Plan for a scaled-up nationwide clinical study for predicting flare-ups in IBD patients
IBD Track - Specific Expectations

Expectations:

▪ Review all IBD Track pre-recorded educational materials
▪ Attend internal IBD Tracker team meetings

Deliverables:

▪ Final presentation and report on market research and competitive landscape analysis: direct-to-consumer microbiome analytics, diagnostics for IBD maintenance and management, etc.
▪ A proposal for a nationwide clinical study to validate initial IBD tracker findings and prototype IBD flare predictive service/product
Catalyst Track - Focus Area

Existing Catalyst Teams with their established partnerships

- Birth Control and STIs
- Reducing the Risk of Opioid Addiction
- Reducing Medication Errors

**Goal:** Interns to take a fresh view of the problem domain, evaluate the current competitive landscape, understand the customer needs, and propose strategic opportunities to address identified needs.
Catalyst Track - Specific Expectations

Expectations:
- Attend bi-weekly working group meetings
- Meet with one or more Catalyst Fellows twice per week

Deliverables:
- Final presentation and report on market research and competitive landscape analysis
- Proposal on strategic opportunities to address identified needs

(optional) Contribute to an aspect of project development with other Catalyst team members or lead/drive a stream relevant to the project area
Application Information
Who is Eligible to Apply?

For paid internship:

- Degree-seeking MIT graduate and undergraduate students from any department who can commit at least 20 hours per week
- MIT graduate students on RAship who can devote 10 hours per week

For unpaid internship:

- Anyone interested in healthcare innovation who is able to devote at least 10 hours per week
- We welcome post-docs, non-MIT students, and non-students
Apply today!

Early admissions to be announced Apr 8

Join our Slack channel: sandbox-healthcare-community

Questions? Email dhive-ops@mit.edu