

Carle Illinois  
COLLEGE OF  
MEDICINE

# Health Make- a-Thon 2021

PROGRAM

## HEALTH**MAKER**LAB

You are **making history** with the Carle Illinois College of Medicine. The Health Maker Lab is a network of maker labs and design spaces across the University of Illinois campus that agree on one goal: democratizing health innovation to improve the world's well-being.

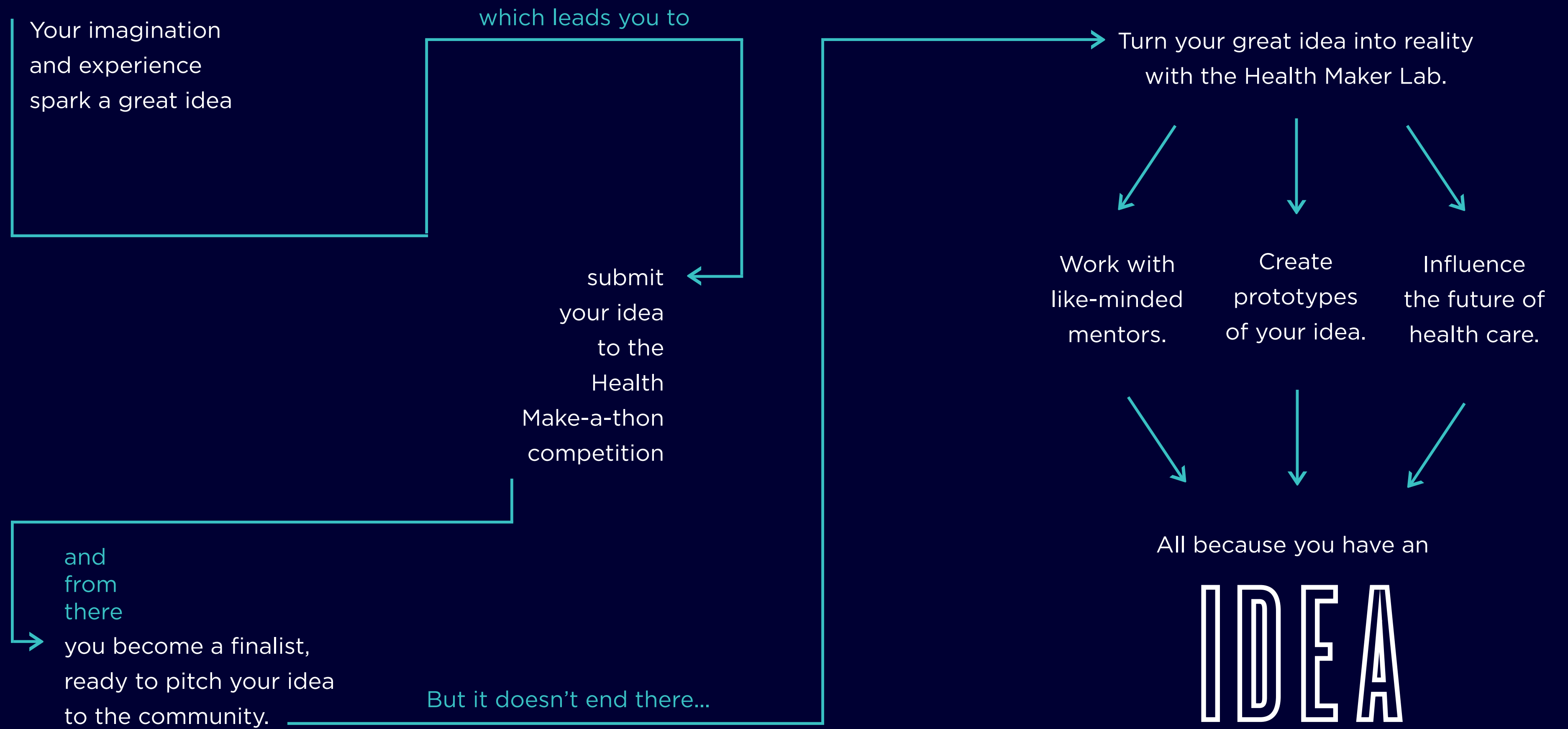
Tonight, join us in cheering on 20 brave health makers, and cast your vote to determine which 10 will win **\$10,000 in idea support** to bring their great ideas to life in the Health Maker Lab.

### **CHEER ON THE MAKERS. CAST YOUR VOTE.**

1. Go to **[go.illinois.edu/make-a-thon-vote](https://go.illinois.edu/make-a-thon-vote)**.
2. After each pitch, rate the idea from 1-10.  
*1=lowest, 10=highest*
3. Click submit.
4. For the next idea, hit the “next” button in the bottom right hand corner.
5. Repeat steps 2-4 until all makers have presented.



# THE HEALTH INNOVATION PROCESS



# MEET *the* JUDGES

STEPHEN BOPPART

MUKUND S. CHORGHADE

PAUL EPNER

JOHN FLYGARE

BARBARA GILLESPIE

LYNN B. HASSAN JONES

ERNEST RECARLOS HARVEY

PAMELA JOLLY

KING C. LI

LAURA MILLER

ISSAM MOUSSA

CHIRAG PATEL

BERTHA PURNELL

BLAIR M. ROWITZ

LAKITA SCOTT

KHAN M. SIDDIQUI

KAREN SIMMS

RACHEL SWITZKY

JOHN THODE

CARRINGTON THORNTON

# A NETWORK *of* MAKER SPACES

ARCHITECTURE FABRICATION STUDIO

ART + DESIGN LABS

BIOMAKER LAB

CITL-TECH HUB

CU COMMUNITY FAB LAB

DESIGN GROUP AT VET MED

DRAW- DESIGNING RESILIENCY AND WELL-BEING

ELECTRONIC DESIGN INNOVATION LAB

ENTERPRISEWORKS RESEARCH PARK

GRAINGER IDEA LAB

HEALTH CARE ENGINEERING SYSTEMS CENTER

iBIOFAB

ILLINOIS MAKER LAB

HOLONYAK MICRO + NANOTECHNOLOGY LAB

MICRO NANO MECHANICAL SYSTEMS LAB

MOLECULE MAKER LAB

NANOMANUFACTURING NODE

PRODUCT DESIGN LAB

RAPID PROTOTYPING + INNOVATION LAB

ROY J. CARVER BIOTECHNOLOGY CENTER

SIEBEL CENTER FOR DESIGN

TEC- TECHNOLOGY ENTREPRENEUR CENTER



# THE HEALTH MAKE-A-THON 2021 FINALISTS

## **A SMART TOY: AIDING COGNITIVE DEVELOPMENT IN CHILDREN WITH AUTISM**

Gerry Derksen  
Stan Ruecker

## **A WIRE-FREE, 12-LEAD EKG**

Kenny Leung

## **ARTIFICIAL INTELLIGENCE ASSISTANT FOR SOCIAL WORKERS ADDRESSING HOMELESSNESS**

Matthew De Venecia

## **ARTIFICIAL MUSCLE-BASED EXOSKELETON AS A SHOCK-ABSORBING ASSISTIVE DEVICE**

Jonghyun Hwang

## **CALIDGEAR: WEARABLE THERMOREGULATION DEVICE**

Tayyaba Ali

## **ECG SHIRT**

Hanna Erickson  
Manisha Reddy  
Meghna Basavaraju

## **FACEIT: A WEARABLE MEDICAL DEVICE TO MEASURE AND MONITOR FACIAL TENSION AS A BIOMARKER OF RELATED COMPLICATIONS AND STRESS**

Mehreen Ali

## **HEALING HEALTHCARE DISPARITIES AMONG BIPOC PATIENTS THROUGH VIRTUAL REALITY CULTURAL COMPETENCY TRAINING**

Victoria Fields  
Mardia Bishop  
Charee Thompson  
Sarah Bencivenga

## **HOLOGRAM MEDICAL TRAINING**

Mamadi Papus Keita  
April Louise Keita

## **IZZII: AN APP THAT AIDS IN GENERALIZABILITY AND INCLUSION IN PHASE III CLINICAL TRIALS**

Sneha Subramanian  
Avani Patel

## **MUSIC TO MY EARS, A BLAM FROM BRONZEVILLE**

Malik Ali Muhammad  
Ray Muhammad

## **NANO-HYPERBARIC OXYGEN DELIVERY SYSTEM FOR CHRONIC WOUNDS**

Michael Tsipursky  
Joseph Irudayaraj  
Jordan Marsh  
Neelabh Sharma

## **NUTRIU: A PERSONALIZED, AUTOMATED NUTRITION ASSISTANT**

Emily Chen  
Firmiana Wang  
Sarah Guo  
Anuprova Bhowmik

## **OUCH: OPTIMIZING UNDERSTANDING OF CRITICAL HEALTH**

Bhavika Kagathi  
Lindsay Kwok

## **PEDI-PRESSURE MONITOR**

Amy Minas

## **PREVENTING ACUTE RENAL FAILURE AFTER CRUSH INJURY**

Nathaniel Brooke  
Ariana Barreau

## **PROTECKD: EARLIER DETECTION OF CHRONIC KIDNEY DISEASE AMONG UNDERREPRESENTED PATIENT POPULATIONS**

Ariana Barreau  
Phani Gaddipati  
Andrew Chang  
Isabella Lebovic  
Priya Kumar  
Thomas Chow

## **SCREENAI: USING IMAGE RECOGNITION TO DRIVE PATIENT-CENTERED DERMATOLOGY**

Romir Singla  
Christopher George  
Sohom Dash

## **STEM VOCABULARY APP FOR DEAF STUDENTS**

Mona Jawad  
Ethan Gaughan  
Aditi Adya  
Ryan Martin  
Ayesha Kazi  
Sumayyah Hussain  
Amy Lee  
Elizabeth Troy  
Sri Mediseti

## **STICKON: AN ATTACHABLE DEVICE TO PREVENT SEVERE HORMONE-RELATED PSYCHIATRIC DISORDERS**

Ryan He  
Elan Pan  
Hong Chen  
Ian Pan

