

## USF I-Corps Teams Selected for the National NSF I-Corps Program

*Follow the links embedded in the titles to view the full project descriptions.*

### **2013**

[I-Corps: Commercialization of a Multi-Purpose Gripper](#)

**Academic Lead:** Redwan Alqasemi, College of Engineering

10/01/2013

### **2014**

[I-Corps: Mobile Autonomous Remotely Controlled Observation Node \(MARCON\) Kit](#)

**Academic Lead:** David Fries, College of Marine Science

12/01/2014

[I-Corps: Software Suite for Quality-Control of Patterned Nanostructures](#)

**Academic Lead:** Sanjukta Bhanja, College of Engineering

09/01/2014

[I-Corps: Walking Crutch/Cane for Enhanced Assistance, Balance, and Control of Walking Dynamics](#)

**Academic Lead:** Kyle Reed, College of Engineering

07/01/2014

[I-Corps: Mobile and E-network Smart Health \(MESH\)](#)

**Academic Lead:** Hui Yang, College of Engineering

**Co-Academic Lead:** Jose Zayas-Castro, College of Engineering

07/01/2014

[I-Corps: Point of Care Biosensor for Quantification of Biomarkers in Bodily Fluids](#)

**Academic Lead:** Venkat Bhethanabotla, College of Engineering

05/01/2014

### **2015**

[I-Corps Teams: Pathways to Market of Piezoelectric Elastomer Composites for Additive Manufacturing of Flexible 3D Conformal Acoustic Emission and Ultrasonic Transducer Arrays](#)

**Academic Lead:** Jing Wang, College of Engineering

12/15/2015

[I-Corps: Portable Autonomous Biomarker Sampling Technology \(PABST\)](#)

**Academic Lead:** David Fries, College of Marine Science

12/01/2015

[I-Corps: Mini Notched Turbine \(MiNT\)](#)

**Academic Lead:** Sylvia Thomas, College of Engineering

12/01/2015

[I Corp Teams: Travel Assistant Device \(TAD\)](#)

**Academic Lead:** Miguel Labrador, College of Engineering  
11/01/2015

[I-Corps: Clean Water by Nature](#)

**Academic Lead:** Norma Alcantar, College of Engineering  
09/15/2015

[I-Corps Teams: Novel Rapid Non-destructive Cell Culture Platform](#)

**Academic Lead:** Nathan Gallant, College of Engineering  
**Co-Academic Lead:** Ryan Toomey, College of Engineering  
08/15/2015

[I-Corps Teams: Pathways to Market for ICARUS Algae Cultivation and Harvesting Technology](#)

**Academic Lead:** Daniel Yeh, College of Engineering  
07/01/2015

## **2016**

[I-Corps: Semantic Video – From Video to Descriptions](#)

**Academic Lead:** Sudeep Sarkar, College of Engineering  
8/15/2016

[I-Corps: Wireless Hands-Free Mobile Wheelchair Control Kit](#)

**Academic Lead:** Stephanie Carey, College of Engineering  
8/8/2016

[I-Corps: A Mobile Health Secondary Prevention Program for Women with Heart Disease](#)

**Academic Lead:** Theresa Beckie, College of Nursing  
8/1/2016

[I-Corps: Shape-Morphing Objects - A Platform for Innovation](#)

**Academic Lead:** Craig Lusk, College of Engineering  
5/15/2016

[I-Corps Hemolix - Technology for detection of pregnancy complications](#)

**Academic Lead:** Anna Pyayt, College of Engineering  
5/15/2016

[I-Corps: Investigating the Commercialization of Peer Review Tools and Writing Analytics](#)

**Academic Lead:** Joseph Moxley, College of Arts & Sciences  
5/1/2016

[I-Corps: HeartMapp. A mobile app for patients with Heart Failure](#)

**Academic Lead:** Ponrathi Athilingam, College of Nursing  
3/15/2016

[I-Corps: Commercialization of Novel CO2 Measurement Technologies](#)

**Academic Lead:** Robert Byrne, College of Marine Science  
**Co-Academic Lead:** Xuewu Liu, College of Marine Science  
1/1/2016

## **2017**

[I-Corps: Scalable Conversion of Carbon Dioxide to Value-Added Commodity Chemicals](#)

**Academic Lead:** John Kuhn, College of Engineering

10/1/2017

[I-Corps: Improved Approach to Polymer Sintering](#)

**Academic Lead:** Nathan Crane, College of Engineering

7/1/2017

[I-Corps: Graphics Processing Unit-Based Data Management System Software](#)

**Academic Leads:** Yicheng Tu, College of Engineering

**Co-Academic Lead:** Kaushik Dutta, Muma College of Business

3/1/2017

[I-Corps: Algal-bacterial Wastewater Treatment Technology](#)

**Academic Lead:** Sarina Ergas, College of Engineering

3/1/2017

## **2018**

[I-Corps: An Individualized 3D Printed Silicone Bottle Nipple](#)

**Academic Lead:** Rasim Guldiken, College of Engineering

7/1/2018

[I-Corps: Use of eHealth to Personalize Exergame Prescriptions](#)

**Academic Lead:** Hsiao-Lan Wang, College of Nursing

**Co-Academic Lead:** Dr. Srinivas Katkooi, College of Engineering

4/1/2018

## **2019**

[I-Corps: A Smart Technology for Child Safety](#)

**Academic Lead:** Srinivas Katkooi, College of Engineering

3/15/2019

## **2021**

[I-Corps: Transimpedance amplifier \(TIA\) for sensing systems that converts sensor current to voltage and amplifies the signal](#)

**Academic Lead:** Sylvia Thomas, College of Engineering

1/1/2021

[I-Corps: Extracellular matrix materials for use in creating tissue scaffolding to regenerate tissues](#)

**Academic Lead:** William Mondy, Taneja College of Pharmacy

1/15/2021

[I-Corps: Multimedia Augmented Reality Vocabulary Instruction](#)

**Academic Lead:** Sara Smith, College of Education

3/1/2021

### **2021 cont.**

[I-Corps: Development of a gut bacterial strain to stimulate mucus-secreting cells of the colon to treat leaky-gut](#)

**Academic Lead:** Hariom Yadav, Morsani College of Medicine  
10/1/2021

### **2022**

[I-Corps: Recycled plastic lumber building material replacement for structural lumber](#)

**Academic Lead:** Rasim Guldiken, College of Engineering  
6/1/2022

### **2023**

[I-Corps: Fenchol Enriched Dietary Supplements](#)

**Academic Lead:** Hariom Yadav, Morsani College of Medicine  
12/1/2023