



CITRIS FOUNDRY

DEMO DAY

SEPTEMBER 19, 2017

01 MEET THE FUTURE



TOMORROW'S SOLUTIONS, TODAY.

At CITRIS Foundry, our founders are inventing the future. Walk into our brand-new entrepreneurship center on campus and you'll see them working at the frontiers of gene editing, artificial intelligence, programmable hardware, energy systems, and other deep technologies.

Our view is that the biggest opportunities will emerge where disciplines collide — when the lines between engineering, computer science, biology, and other tech sectors begin to blur. The University of California's culture and ecosystem form a radical space where these opportunities are created daily.

Join us for a first glimpse at what's coming.

The future is here.

Peter Minor
Partner, Co-Founder

Alic Chen
Partner, Co-Founder

Julie Sammons
Partner

Kyle Clark
Program Manager

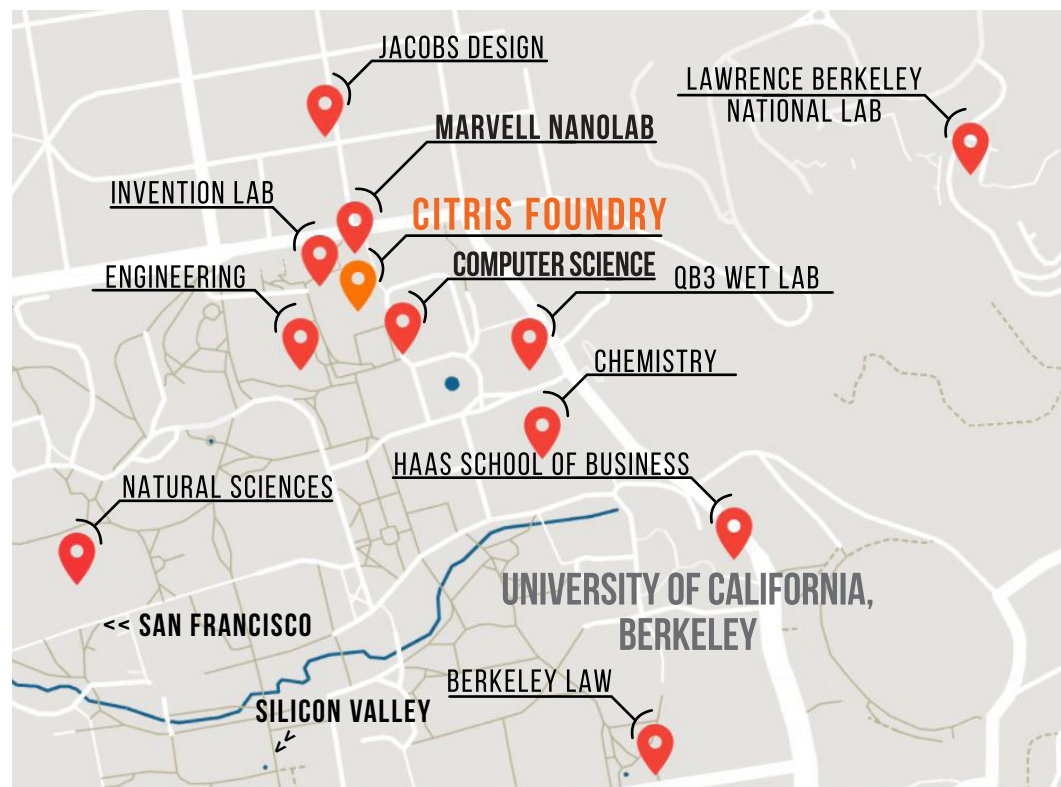
Eugene Noh
Partnerships Lead

Patrick Scaglia
Co-Founder

AN INVENTION ECOSYSTEM

CITRIS Foundry is embedded in UC Berkeley, a premier research university with global influence. Our startups come from the surrounding science and engineering programs — many of which are ranked top in the world. The Foundry program helps these entrepreneurs leverage one of the best research and startup ecosystems on the planet:

- + \$845M+ in research funding for 2016-17
- + #1 in NSF Graduate Research Fellowships
- + Leader in gene therapy, robotics, AI, sensors, materials
- + 468 VC-backed startups from alumni since 2010



02

OUR MODEL

BRIDGING THE GAP

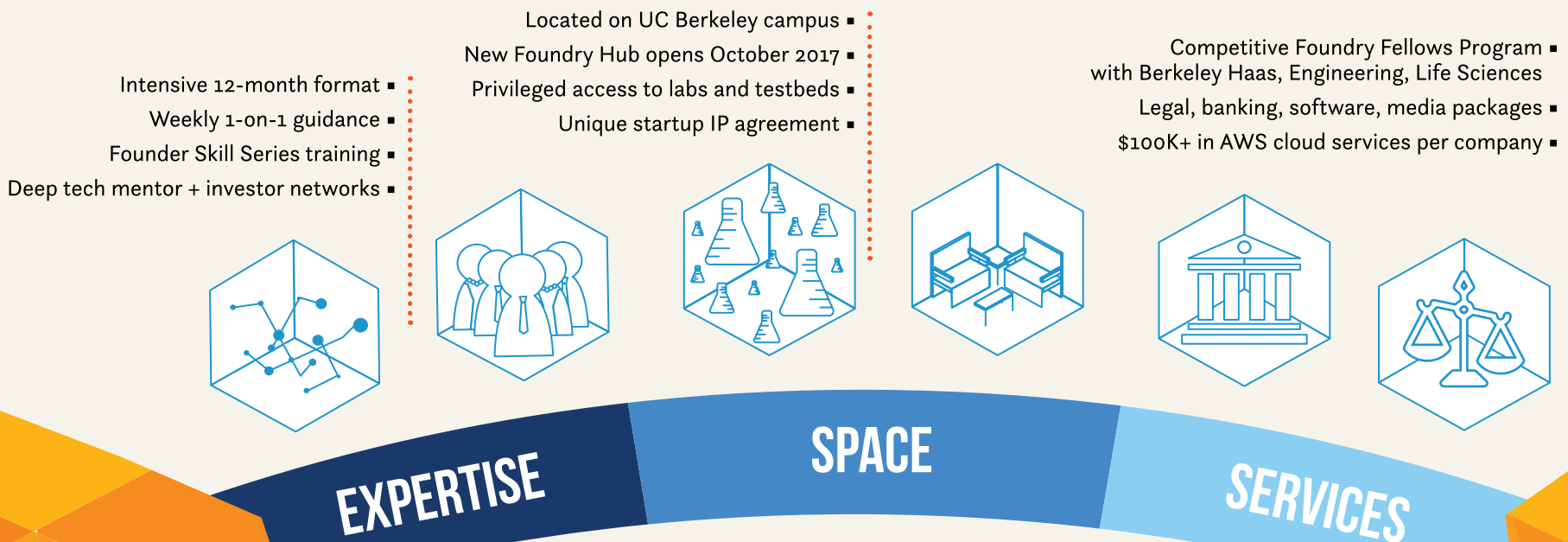
Our program specializes in helping founders make the leap from science to startup. In this critical period where deep technology ventures often fail, we provide targeted structure and support.

FOUNDRY BY THE NUMBERS:

2013^{EST.} <10% ENTRY RATE

79% GRADUATE STUDENTS 17,500 SQFT OF LAB ACCESS

42 START U P S 68% FUNDED BY GRADUATION



CITRIS
FOUNDRY

03

SCHEDULE



WELCOME

ON THE HORIZON

ALUMNI HIGHLIGHTS

DASH ROBOTICS

LIONESS

CALWAVE POWER TECHNOLOGIES

SIMPLEWATER

STARTUP PITCHES

RAYDIANT OXIMETRY

MFLUIDX

DECYPHIR

ALSEN

ELYSIAN LABS

DNALITE THERAPEUTICS

NETWORKING

#FoundryDemoDay



04 RAYDIANT OXIMETRY

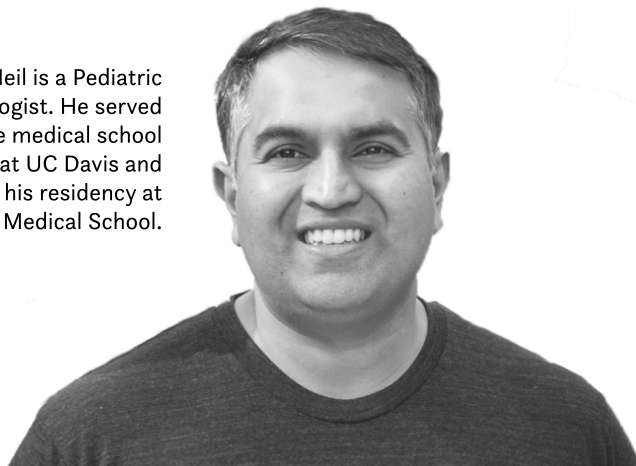


Keeping mothers and babies safe during childbirth through better fetal monitoring.

Raydiant Oximetry is on a mission to deliver healthy babies by providing more accurate and actionable data. Founder Neil P. Ray, M.D., is pioneering a single, non-invasive device that detects critical vital signs from the mother and unborn baby simultaneously. Neil's first-hand experience as a delivery room anesthesiologist drove him to equip doctors with better data at the time when it matters most.

RAYDIANTOXIMETRY.COM

Neil is a Pediatric Anesthesiologist. He served on the medical school faculty at UC Davis and completed his residency at Harvard Medical School.



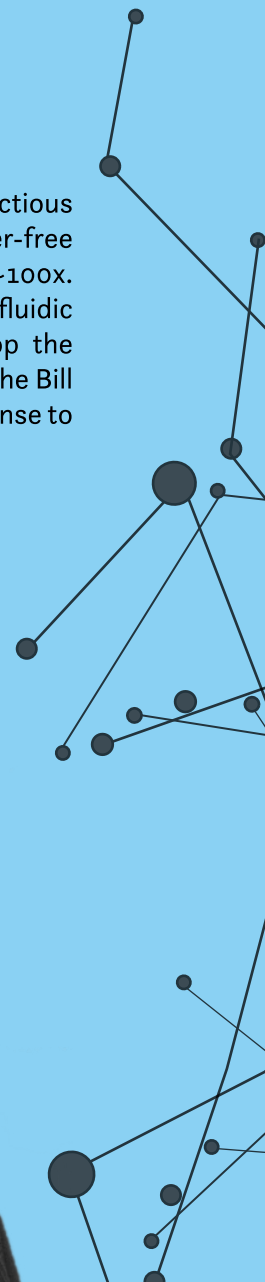
MFLUIDX 05

Enabling molecular detection anywhere.

mFluidX is making it possible to detect and diagnose infectious diseases at the point of care. Their portable, power-free technology is designed to reduce DNA testing costs by ~100x. Inventor Charlie Yeh completed his dissertation in microfluidic engineering at UC Berkeley, where his work to develop the 'FAST Chip' for DNA and RNA diagnostics was funded by the Bill and Melinda Gates Foundation and DARPA for rapid response to global disease outbreaks.

MFLUIDX.COM

Charlie received his Ph.D. in Bioengineering from the joint program at UC Berkeley and UCSF, and was named a Siebel Scholar for his work to address societal challenges.



06 DECYPHIR



Software tools for fast and reliable design of automotive software.

The complexity of machines, advanced medical devices, and other cyber-physical systems is growing exponentially. Bringing these systems to market requires rapid verification and validation, which is especially challenging in the automotive sector. Decyphir has created a toolkit to address these challenges. Alex Donzé joined Professor Sanjit's Seshia's group at UC Berkeley in 2011, and they subsequently developed the theory and algorithms for Decyphir.

DECYPHIR.COM

Alex's research career spans UC Berkeley, Carnegie Mellon, and Grenoble University where he received his Ph.D. in Computer Science and Mathematics.

Sanjit is a Professor in the EECS Department at UC Berkeley with expertise including cyber-physical systems, computer security, and electronic design automation.



07 ALSEN

AI for energy efficiency in buildings.

Alsen's building management system enables a dynamic response to changes in occupancy levels throughout the day, leading to significant cost-savings and comfort improvements. Alexis Garberis and Professor Alberto Cerpa co-founded Alsen based on Alberto's leading-edge research on sensor networks for real-time monitoring and prediction of space occupancy.

ALSENINC.COM

Alexis has led technology sales, product, and marketing teams for over 20 years at multinational and startup companies.

Alberto founded and leads the Adaptive Networked Distributed Embedded Systems (ANDES) Lab at UC Merced.





08 ELYSIAN LABS

Forging tools for America's heroes.

Elysian Labs is revolutionizing digital interfaces, beginning with technology for U.S. military Special Operations forces. Their programmable hardware is designed to help save lives in situations where every second counts. UC Berkeley Ph.D. graduates Joanne Lo and Adam Hutz combined their expertise in engineering, human-computer interaction, and user-centered design to create a new class of modular, networked wearables.

ELYSIANLABS.IO

Joanne holds degrees in Human Computer Interaction (Ph.D.), Electrical Engineering (M.S.), and Biomedical Engineering (B.S.) and previously worked at Sandia National Laboratories.

Adam received his Ph.D. in Rhetoric from UC Berkeley and specializes in the design of wearable and interactive devices.



09 DNALITE THERAPEUTICS

Gene therapy beyond the mucus.

The body's mucus provides a front line of defense against pathogens — and creates a barrier for therapeutic treatments. Mubhij Ahmad and Timothy Day are developing a novel delivery system that goes beyond the mucus to bring gene therapies to vital organ systems, including the gastrointestinal tract, lungs, and cervix. DNALite Therapeutics was born from their work as graduate students at UC Berkeley.

DNALITE.COM

Mubhij received his M.S. in Chemical and Biomolecular Engineering from UC Berkeley, with a Professional Masters in Product Development (PDP) from the College of Chemistry.

Timothy is a Ph.D. Candidate ('17) in Neuroscience at UC Berkeley with expertise in gene delivery vehicle engineering.





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APPLY TO JOIN

Founding a tech startup is hard. We can help.

CITRIS Foundry accepts motivated teams with technologies that will significantly impact the world.

We specialize in deep tech that can disrupt current markets or create new ones. Our team works side-by-side with founders for a full 12 months, helping you accelerate from prototype to product-market fit.

HOW

- Upload your concept and a 60-second video
- Finalists will be invited to pitch in person
- Referrals are strongly considered

WHO

- Startups with ideas that are original, scalable, and financially viable
- Founders with diverse backgrounds and perspectives are encouraged
- Affiliated with top-tier research universities including UC Berkeley, UC Davis, UC Merced, UC Santa Cruz, UC San Francisco

WHEN

- Applications open during CITRIS Foundry Demo Day on 9/19/17
- Applications close online at 11:59PM on 10/27/17

CITRISFOUNDRY.ORG/APPLY



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SUPPORTERS

CITRIS Foundry Demo Day: Fall 2017
is generously sponsored by

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launch.wilmerhale.com



Our Strategic Partners are
investing in the future and accelerating the
next generation of technological breakthroughs.



Thank you to our incredible community of deep tech founders, alumni, and mentors for sharing your talents and daring to solve hard problems.

CITRIS FOUNDRY
DEMO DAY: FALL 2017

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STARTUP NEWS, UPCOMING EVENTS,
FOUNDER STORIES, AND MORE...



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Contact Program Manager Kyle Clark about
mentorship roles and partnership opportunities
with CITRIS Foundry: kyle.clark@berkeley.edu