CITRIS **INVENTION LAB**
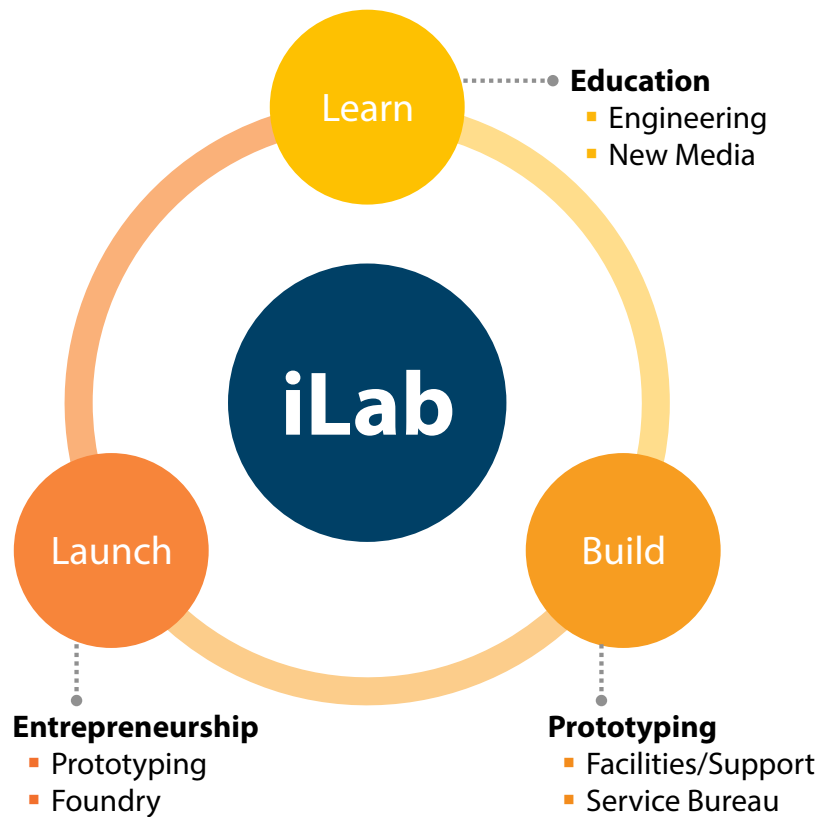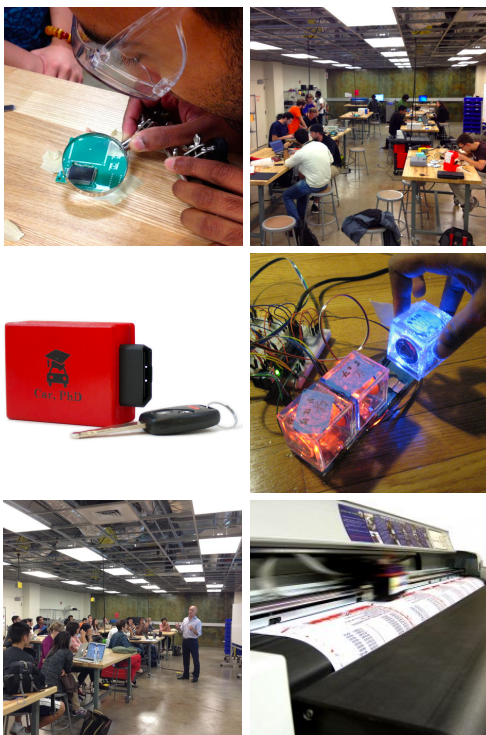## MAKING GREAT IDEAS INTO GREAT DEVICES

The CITRIS Invention Lab (iLab) supports faculty, student and community innovation by providing the knowledge, tools and support to rapidly design and prototype their ideas. The new facility will be a vital piece of the CITRIS "pipeline" running from the innovative minds of researchers through CITRIS laboratories, and into the markets, industries, and streets of the real world.

The **1,300 ft² iLab** is located on the first floor of **Sutardja Dai Hall** at UC Berkeley, and supports three major functions:

1. Teaching Engineering and New Media courses on product and device design & prototyping
2. Providing facilities and technical support for hardware and software prototyping
3. Translating ideas and concepts to new ventures through prototyping support for the Foundry business incubator

Learn

Education
- Engineering
- New Media

iLab

Launch

Build

Entrepreneurship
- Prototyping
- Foundry

Prototyping
- Facilities/Support
- Service Bureau

iLab resources consist of an array of traditional prototyping equipment that range from basic craft tools to machining and electronics instruments. These tools are complemented with professional-quality machines such as **laser cutters** and **3D printers**, including a MakerBot and a Projet 3000. Furthermore, common prototyping supplies and materials are available for use in the lab. iLab staff provides guidance and support for the equipment and infrastructure. Together, these assets allow iLab users to turn designs and ideas into functional prototypes.

FACULTY AND CLASSES

- CS294-84: Interactive Device Design
- Advanced Interactive Devices & Digital Design

Professors Bjöern Hartmann & Paul Wright

- NM290: Critical Making: Materials Protocols & Culture

Professor Eric Paulos

The iLab is one part of the CITRIS invention ecosystem, which also includes:

- **The Marvell Nanofabrication Laboratory**, which provides access to thin-film deposition, etching tools, photolithography, pattern transfer, and doping tools in class 100 and class 1000 cleanroom facilities. Marvell helps researchers make prototypes of new devices at the micro and nano scales. Together with iLab, they will be more than parallel institutions: nano-chips, MEMS, smart materials, and other tiny devices developed in Marvell will themselves become components of larger devices developed at the iLab.

- **The Social Apps Lab @CITRIS Berkeley**, which focuses on the potential of cell phones and other mobile locative media to harness the participatory energies of game-play to address social issues. The two labs will collaborate on user interface and gaming strategies to encourage use and integration of devices and services.

"Our mission is to usher the best IT and engineering ideas into the real world where they can make a difference for the better. We want to see a strong California economy, but we also want to see the evolution of excellent devices that promote human dignity, make cities work better, restore and strengthen health, preserve the environment, and bring people closer to each other and to the nature of the world they live in. "

Paul K. Wright
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