

CALIT2 Town Hall Meeting

Thursday, Oct. 24, 2019

AGENDA

- Welcome and Staff Introductions
- Remarks from VCR Pramod Khargonekar
- Tenant Benefits and Responsibilities
- Q & A
- Rapid-fire Research Summaries and Collaboration Opportunities by Participating Faculty in Alpha Order
- Networking Reception and Lab Open House

CALIT2 Exploring IOT for Digital Empowerment

The 2010 Path Forward plan focuses on the digital transformation of:

Health

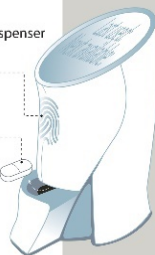
HOW PICARD WORKS

Hand-held, compact pill dispenser

Thumb print sensor recognizes patient and dispenses medication

Controlled dosage is dispensed at prescribed times, otherwise device locks out attempts.

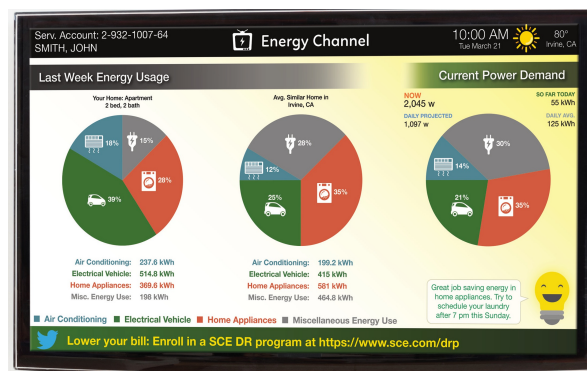
Location is registered for security. If PICARD is lost or stolen, it locks and sends an alert to the patient along with current location.



WHAT DATA ARE COLLECTED

- Number of attempts
- Any unauthorized attempts
- Time/date each pill is dispensed
- Self-reported pain-level inquiries are occasionally sent to patient's smartphone 45-60 minutes after medication is dispensed to gauge the drug's effectiveness.
- Activity and vital statistics are synchronized with smartwatch.

Energy



Environment



Culture



The Future: Data Revolution

Two central drivers unite the research pillars:

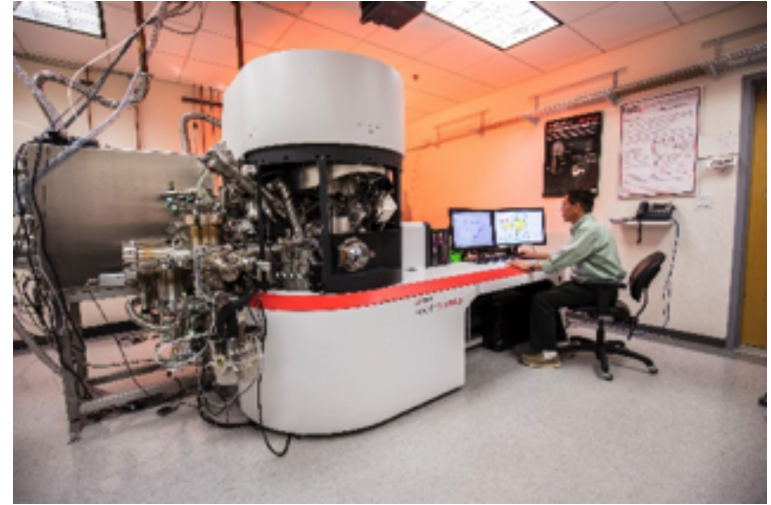
- Distributed high-performance computing and intelligent sensing nexus at edge
- Data modeling and analytics serving as intelligence at the cloud of the booming Internet of Everything



CALIT2 Resources and Support for Faculty Affiliate

Shared-use Facilities

- Clean rooms
- Microscopy and materials characterization labs
- Makerspaces (FabWorks and MicroSemi Innovation labs)
- Data Engineering Think Tank Lab



Technical Services

- Proof-of-concept support
- Fast prototyping and system-integration assistance (hardware and software)



CALIT2 Resources and Support for Faculty Affiliate

Startup Company Incubator

CALIT2's **TechPortal** is a pre-incubator that houses and assists young startups.



CALIT2 Resources and Support for Faculty Affiliate

Essential Business and Operation Service

Business Office

- Proposal submission
- Budget preparation
- Post-award administration, from assignment and setup of the accounts to closeout
- Financial reporting to funding agencies
- Setup of sales & service agreements
- PCS reports
- Cost-sharing tracking
- Purchasing
- Human resources
- Travel / reimbursement processing
- Recharge processing
- Invoicing & financial oversight

Communications Team

- Press releases
- Feature articles
- Event marketing
- Event hosting

Facilities/Computing

- Access cards and keys
- Server management
- Small-cap requests
- Computer support
- Facility space assignments & rental

Research Instrumentation Proposals

Leveraging CALIT2 lab space and matching fund support to secure large federally funded research instrumentation awards.

Student Programs and Fellowships

Faculty proposed research projects and mentoring for CALIT2's Summer Undergraduate Research Fellowships in Internet of Things (SURF-IoT), which immerses UCI undergrads in a 10-week, hands-on research experience and the two-quarter-long Multidisciplinary Design Program (MDP), which engages undergraduate and graduate students across the disciplines in design teams.

CALIT2 Resident Faculty Benefits

Server Room Usage

CALIT2 technical professionals provide hosting support for faculty to house research servers and/or utilize the building's high-speed fiber optics.

CALIT2 Resident Faculty Benefits

Hosting Meetings in CALIT2 Auditorium/Atrium

For faculty whose contracts/grants are managed by CALIT2 business office, CALIT2 professionals will provide event hosting support with minimum service fee for faculty chairing a workshop or conference.