

Preparing the ground for future innovation

So many engineers and computer scientists of all stripes are contributing to the research and technology advances necessary for developing and disseminating COVID-19 vaccines, therapeutics and new methods to study and track the virus. I'm heartened by the technical progress and also adamant that we all must confront the structural and systems-level challenges we face. Technical progress in isolation is not true progress.

Despite it all, we are in the final year of construction of Franklin Antonio Hall, our new building designed to facilitate the kinds of platform-technology pivots critical to today's rapid COVID-19 vaccines.

We designed Franklin Antonio Hall, floor by floor, for strong and rapid responses to emerging challenges we will confront in the coming years. Below is a five-minute video clip in which I share part of the vision behind Franklin Antonio Hall. I am buoyed by our collective efforts and motivated by the knowledge that designing optimal research ecosystems will help to ensure our students and postdocs emerge from academia as the innovation workforce our nation needs.

I look forward to collaborating with many of you on the challenges of 2021. As always, I can be reached at DeanPisano@eng.ucsd.edu.

-Albert P. Pisano, Dean

UC San Diego Jacobs School of Engineering

Franklin Antonio Hall: Spring 2022

Franklin Antonio Hall will serve as a model for how to build innovation ecosystems with physical roots and virtual infrastructure that extend opportunities well beyond the walls of the building. The diverse yet complementary research teams will develop platform technologies that can be pivoted from one application to another to rapidly respond to the needs of the country. Students, innovators and industry partners will all have dedicated spaces in Franklin Antonio Hall. It will grow into an innovation ecosystem with deep technical richness and national and international reach.

Learn more: bit.ly/PisanoFAH



Detecting fever before you feel it

Temperature data collected by wearable devices worn on the finger can be reliably used to detect the onset of fevers, a leading symptom of both COVID-19 and the flu, according to a team of researchers from UC San Diego, UC San Francisco and MIT Lincoln Lab. The researchers studied the data of more than 65,000 people wearing a smart ring that records temperature, heart rate, respiratory rate and levels of activity. "This isn't just a science problem, it's a social problem," said Benjamin Smarr, the paper's corresponding author and a professor in the Department of Bioengineering and the Halicioglu Data Sciences Institute at UC San Diego. "With wearable devices that can measure temperature, we can begin to envision a public COVID early alert system."

Learn more: bit.ly/DetectingFever



