

## We tackle the hardest problems

At the Jacobs School of Engineering, we tackle the hardest problems that no lab, discipline or industry can solve alone. This is one of the ways we prepare our students and postdocs to become the innovation workforce our nation so desperately needs.

Ten simple rules for women principal investigators during a pandemic and a call to end funding discrimination against Black scientists in the United States are two new examples of our faculty engaging with some of the toughest challenges in the organization and practice of research.

Another example: electrical engineers and computer scientists are collaborating with a National Lab and industry partners to scale up a new, energy-saving photonic network approach for data centers.

While our students, staff and faculty are making incredible advances, I'm working with many people inside and outside the Jacobs School to ensure we have not just more, but the right kinds of research and teaching infrastructure and ecosystems.

In the short video below, I share some additional thoughts on why, and how, we are working so hard to create relevant innovation ecosystems in Franklin Antonio Hall. I am absolutely dedicated to ensuring that our research community is empowered to move fundamental advances through engineering to innovation and out to the marketplace.

I look forward to collaborating with many of you on this and other challenges of 2021. As always, I can be reached at [DeanPisano@eng.ucsd.edu](mailto:DeanPisano@eng.ucsd.edu).

~Albert ("Al") P. Pisano, Dean

UC San Diego Jacobs School of Engineering

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## Franklin Antonio Hall: Industry Partnerships

We are a top 9 engineering school with the creativity and openness necessary to tackle the toughest shared challenges. Academia, industry and government labs working together on future technology is baked into the DNA of the Jacobs School. In Franklin Antonio Hall, we are building on this to create a national model for innovation ecosystems with local roots and national and international reach.

Learn more: [bit.ly/PisanoFAHIndustry](https://bit.ly/PisanoFAHIndustry)

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Turning masks into COVID-19 we are building a national model for innovation ecosystems with local roots and national and international reach.

# Photonics pioneers aim to cut data center energy use

Electrical engineers and computer scientists at UC San Diego are on the front lines of global efforts to reduce the energy used by data centers. The potential impact is great: the a.5he frooro r

