Center for Wearable Sensors

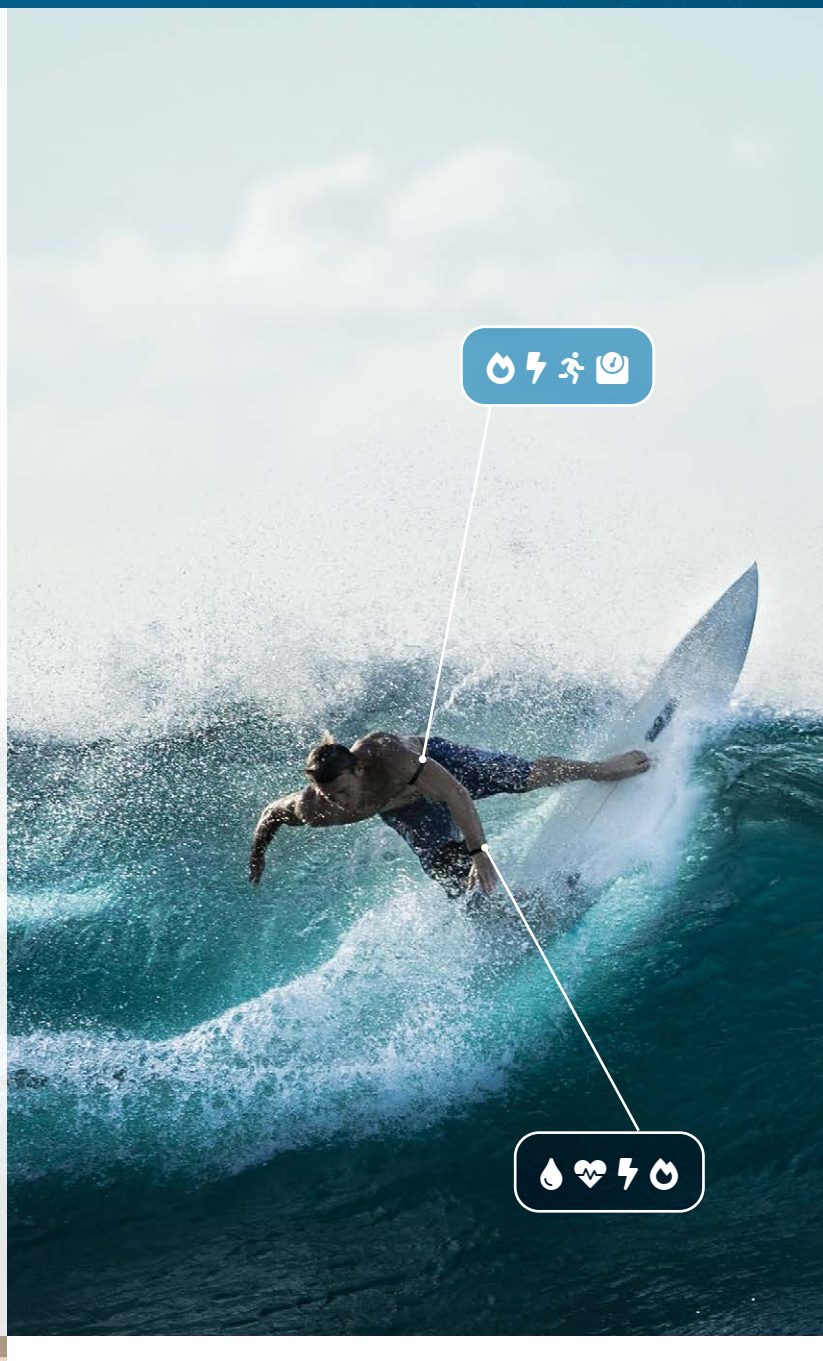
UC San Diego
JACOBS SCHOOL OF ENGINEERING

WE INVENT THE WEARABLE SYSTEMS THE WORLD NEEDS.

Wearable sensors are trending, but only UC San Diego is championing the unobtrusive, ultra-low power, highly adaptive sensor systems that are revolutionizing health, fitness, security, and energy – by way of the data available from our bodies.

The Center for Wearable Sensors has world-renowned faculty and top students working in the key areas that converge to invent and test the sensing platforms and technologies that fuel the future of sensor systems.

Join us.



TECH AND SYSTEMS EXPERTISE

- Chemical Sensors and Biosensors
- Electrophysiological Monitoring
- Soft Electronics and Stretchable Materials
- Sensors-Electronics Integration and Fabrication
- Glucose Monitoring
- Wireless Communications
- On-Body Energy Harvesting
- Ultra-Low-Power Instrumentation
- Data Processing, Fusion and Machine Learning
- Multi-Modal Wearable Sensor Platforms

MEMBERSHIP OPPORTUNITIES

Access **experimental wearable sensor platforms** and a community of engineers and medical researchers developing these systems for real-world applications.

Keep abreast of breakthroughs relevant for growth in **your industry**.

Recruit a **qualified technical workforce** innovating the wearable sensing industry.

WHO WE ARE and WHAT WE DO

We design new sensors, sensor electronics, materials, and energy harvesters. We integrate our work into real systems whose designs are informed by leading clinicians and human interface design experts.

Joseph Wang
Non/minimally-invasive electrochemical sensing, printable sensors, soft bioelectronics

Patrick Mercier
Wireless communications, energy-harvesting integrated circuits, ultra-low-power systems

Kiana Aran
Bioelectronics for multi-omics studies, targeted drug delivery and aging research; integrates CRISPR with electronics

Dinesh Bharadia
Efficient wireless communications and networking

Gert Cauwenberghs
Wireless dry and non-contact biopotential monitoring

Chung-Kuan Cheng
Parallel processing, power network analysis for VLSI systems and circuits

Shadi Dayeh
Electro-neural interfaces and compact wearable electronics

Harinath Garudadri
Signal processing, wearable electrophysiology

Job Godino
Wearable and mobile health technology

Drew Hall
Biosensors, medical electronics, sensor interfaces

Jesse Jokerst
Use of acoustic data to create devices that monitor human health

Tzyy-Ping Jung
Dry & non-prep EEG sensors, wearable and wireless EEG systems

Yu-Hwa Lo
Microfluidics, biomedical devices for invitro diagnostics, bio- and nanophotonics

Kenneth Loh
Multifunctional materials, spatial sensing, and tomographic methods

Tse Nga (Tina) Ng
Free-form, flexible electronics fabrication

Tauhidur Rahman
Mobile and ubiquitous sensing technologies to capture physiological and behavioral signals

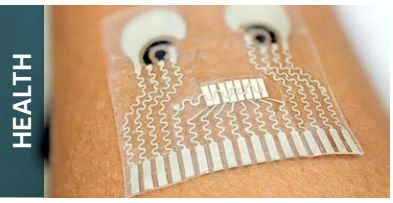
Gabriel Rebeiz
RFICs for microwave and mm-wave systems, low-power circuits

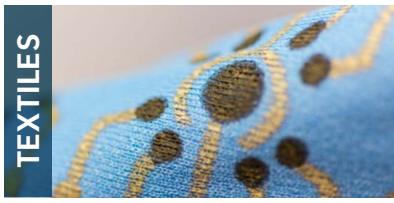
Tajana Rosing
Energy-efficient systems, embedded systems

Ben Smarr
Biological rhythms, time series analysis, health and wellness classification and prediction

Edward Wang
Computing and machine learning for health and wellness, and user-centric design for mobile health technologies

Benjamin Bratton
Visual Arts, interface with VR and AR environments





PARTNER BENEFITS

- A seat on the Center for Wearble Sensor's Board of Advisers for discussion of Center priorities
- Opportunities to engage Center faculty through research-oriented meetings
- Opportunities to engage graduate students affiliated with the Center regarding jobs, internships, and co-ops
- Invitations to annual research reviews, workshops, and seminars

Director

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