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.

Technologies 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

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

**Gert Cauwenberghs**
Wireless dry and non-contact biopotential monitoring

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

**Todd Coleman**
Information theory, neuroscience, machine learning, bioelectronics

**Shadi Dayeh**
Electro-neural interfaces and compact wearable electronics

**Harinath Garudadri**
Signal processing, wearable electrophysiology

**David Gough**
Long-term glucose sensors, biocompatible materials

**Drew Hall**
Biosensors, medical electronics, sensor interfaces

**Mike Heller**
Sample-to-answer and POC diagnostics for cancer, brain injury, stroke, diabetes

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

**Gert Lanckriet**
Machine learning, personalized mobile health

**Darren Lipomi**
Stretchable electronics, polymer chemistry, stimuli-responsive materials

**Yu-Hwa Lo**
Microfluidics, biomedical devices for in-vitro diagnostics, bio- and nanophotonics

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

**Kevin Patrick, MD**
Mobile and social technologies for health care

**Albert P. Pisano**
MEMS, manufacturing, low-cost sensors

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

**Tajana Rosing**
Energy-efficient systems, embedded systems

**Sheng Xu**
Wearable electronics, advanced stretchable materials

**Benjamin Bratton**
Visual Arts, interface with VR and AR environments

**Partner Benefits**

- Recruit our top students
- Access to multidisciplinary researchers all focused on wearables
- Embed a Visiting Industry Fellow in our labs
- Industry-faculty-student research teams
- Fast-track research agreements
- Access to commercialization engine with lab-to-market focus
- Seat on the Center Advisory Board
- Invitations to Research Summits