

TAP INTO OUR DYNAMIC ROBOTICS COMMUNITY

We cross disciplines to solve pressing fundamental and applied challenges in robotics. Central to this work are our efforts to educate and inspire UC San Diego engineering and computer science students. Fully engaged in cross-disciplinary innovation, our students are the robotics workforce of tomorrow.

Together, we innovate in three overarching areas:



AUTONOMY

The **Autonomous Systems Collaboratory** develops perception, planning, and control technologies for air, sea, and ground robotics, focusing on mapping, strategy planning, robust control, and user interfaces for applications like patrolling, fire detection, domestic robots, autonomous vehicles, and drones.



EMBODIMENT

The **Cyber-Physical Technologies Collaboratory** explores innovative mechanisms, advanced materials, sensor integration, edge-embedded systems, and control methods. Research focuses on uniting perception, planning, and control to connect robotics with the physical world, advancing comprehensive cyber-physical system designs and applications.



HEALTH

The **Medical & Healthcare Robotics Collaboratory** advances clinical and healthcare robotics, focusing on surgical systems, rehabilitation, and assisted living. Research emphasizes human factors, co-developing technologies with patients and medical experts, and integrating design, control, image guidance, and clinical demonstrations for impactful solutions.

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