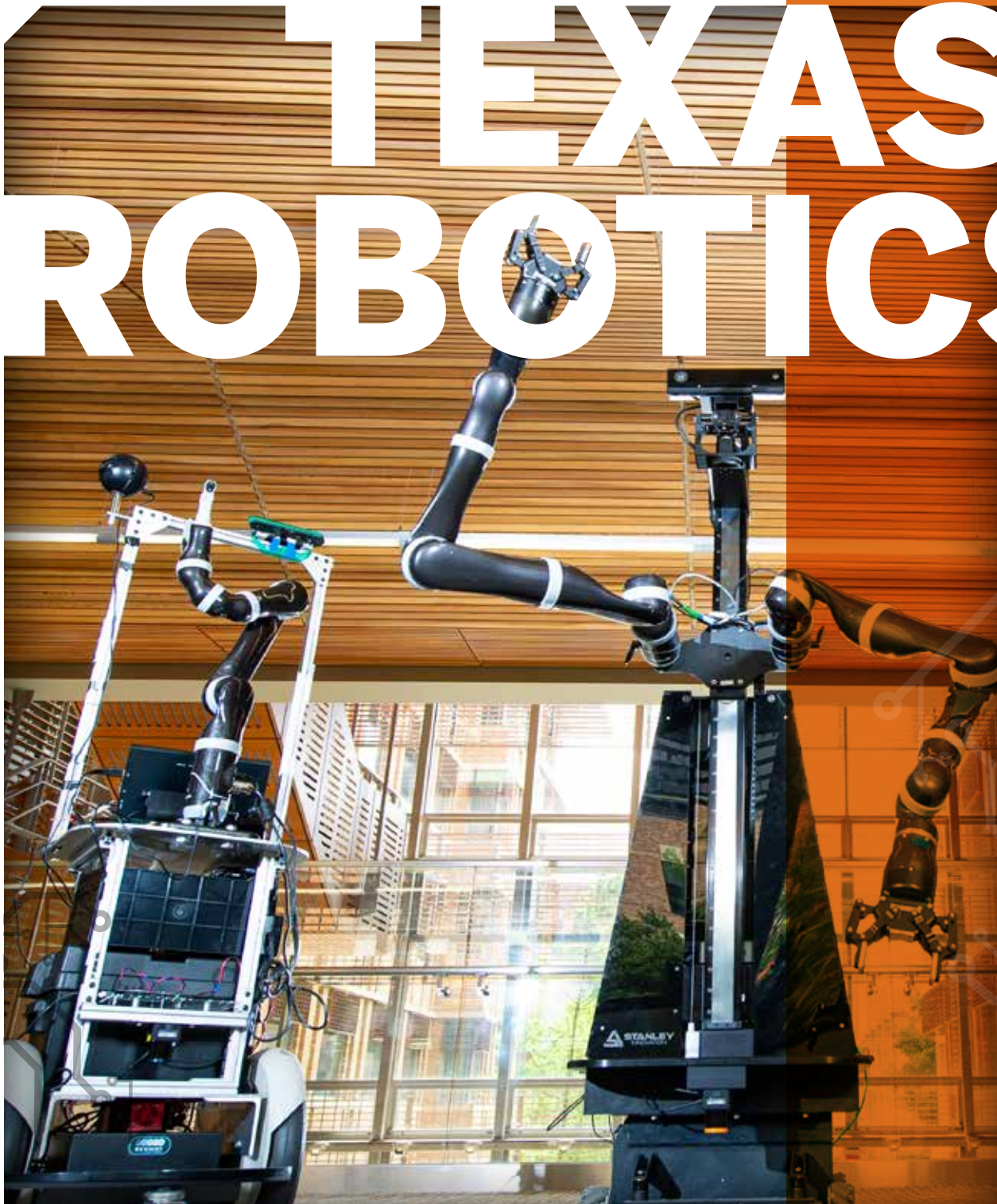


Bringing together robotics students, world-class faculty, researchers, and industry leaders to fuel the future of robotics at UT Austin and beyond.

TEXAS ROBOTICS



WHAT STARTS HERE CHANGES THE WORLD

TEXAS Robotics

Texas Robotics provides world-class education and pursues innovative research emphasizing long-term autonomy and human-robot interaction while leveraging UT Austin's breadth to support a broad range of industrial applications.

WHAT IS TEXAS ROBOTICS?

Texas Robotics unites robotics efforts at The University of Texas at Austin to enable deeper collaborations, accelerate and grow research programs, and provide comprehensive educational offerings.

EDUCATION: THE ROBOTICS GRADUATE PORTFOLIO PROGRAM

UT's Graduate Robotics Portfolio Program furnishes graduate students with a certification of expertise in robotics with their Master's or Ph.D. degree from their home departments. The program promotes interdisciplinary interaction, fosters a student-led robotics research community, and empowers students to cultivate the skills that will make them technological leaders in their industries.

RESEARCH: ROBOTICS CENTER OF EXCELLENCE

The Robotics Center of Excellence encompasses all major robotics research at UT Austin and is designed to enable Texas Robotics to perform large-scale, highly collaborative research with University and industry affiliates.

TEXAS ROBOTICS INDUSTRIAL AFFILIATE PROGRAM

Texas Robotics' Industrial Affiliate Program forges close relationships between robotics students, researchers at UT Austin, and our natural partners in industry. The program is fueling the future of robotics at UT Austin and beyond, propelling growth by giving industry partners access to cutting edge research and top talent while University researchers gain a clear understanding of the real-world challenges confronting our partners.

MEET A FEW OF OUR PARTNERS



In addition, Texas Robotics is engaged with Army Futures Command to develop leading-edge robotics solutions.

FACULTY & RESEARCH AREAS

Texas Robotics includes 16 core faculty members, 40 affiliated faculty members, and 155 students, postdocs, visiting scholars, and research engineers from four top-ten departments at The University of Texas at Austin.

COMPUTER SCIENCE

Joydeep Biswas, PhD

Assistant Professor
Long-Term Autonomy
Perception
Localization, Mapping,
and Navigation

Scott Niekum, PhD

Assistant Professor
Human-Robot Interaction
Perception
Robot Learning
Artificial Intelligence

Peter Stone, PhD

Professor
Artificial Intelligence
Multi-Robot Systems
Robot Learning
Long-Term Autonomy

Yuke Zhu, PhD

Assistant Professor
Grasping & Manipulation
Perception
Robot Learning
Artificial Intelligence

AEROSPACE ENGINEERING & ENGINEERING MECHANICS

David Fridovich-Keil, PhD

Associate Professor
Dynamics & Control
Motion & Path Planning
Robot Learning

Luis Sentis, PhD

Associate Professor
Humanoid Robots
Locomotion, Motion
and Path Planning
Dynamics & Control
Exoskeletons &
Prosthetics

Ufuk Topcu, PhD

Assistant Professor
Artificial Intelligence,
Formal Methods
in Robotics
Planning

ELECTRICAL & COMPUTER ENGINEERING

Sandeep Chinchali, PhD

Assistant Professor
Robot Learning
Robot Vision
Artificial Intelligence,
Dynamics & Control
Perception

José Millán, PhD

Professor
Brain-Machine Interface
Exoskeletons &
Prosthetics
Human-Robot Interaction
Medical, Rehabilitative,
and Surgical Robotics

Andrea Thomaz, PhD

Associate Professor
Artificial Intelligence
Human-Robot
Interaction

MECHANICAL ENGINEERING

Farshid Alambeigi, PhD

Assistant Professor
Bio-Inspired Robotics
& Biomechanics
Medical, Rehabilitative,
and Surgical Robotics
Robot Mechanisms
& Design

Ashish Deshpande, PhD

Associate Professor
Exoskeletons & Prosthetics
Grasping & Manipulation
Medical, Rehabilitative,
and Surgical Robotics,
Human-Robot Interaction

Ann Majewicz Fey, PhD

Associate Professor
Dynamics & Control
Medical, Rehabilitative,
and Surgical Robotics
Teleoperation, Haptics,
and Wearable Robots

Mitch Pryor, PhD


Research Scientist
Field & Service Robotics
Grasping & Manipulation
Teleoperation, Haptics,
and Wearable Robots
Human-Robot Interaction

James Sulzer, PhD


Assistant Professor
Brain-Machine Interface
Exoskeletons & Prosthetics
Medical, Rehabilitative,
and Surgical Robotics
Human-Robot Interaction,
Teleoperation,



SPACE & RESOURCES




The UT System's Board of Regents demonstrated its dedication to shaping the future of robotics by funding the conversion of the **Anna Hiss Gymnasium** into a state-of-the-art robotics research facility. Texas Originally opened in 1931, the 55,000-square-foot historic Anna Hiss Gymnasium sits in the heart of campus, and it's been fully renovated to bring these groups together into a facility that will serve as the home of Texas Robotics.



The Anna Hiss Gymnasium includes multiple laboratories, housing research into the use of robots for physical rehabilitation and whole body controls architectures for humanoid robotics and exoskeletons. The facility is also home to a 1,200-square-foot motion capture studio, a simulated apartment for service robotics research, a simulated operating room for surgical robots, a heavy robotics bay for researching robots operating in hazardous environments, and fleets of deployed robots operating in the building for research into the practical applications of robots and long-term autonomy. In addition to these laboratories, the facility has large open laboratory spaces that can be reconfigured as needed to be flexibly used for experiments.

The facility also has a set of four modern fabrication facilities in order to enable Texas Robotics to rapidly prototype, iteratively design, and fully implement novel robotics hardware at the high bandwidth necessary to facilitate our research. Machining facilities include a robotics shop surrounding CNC and other metal fabrication processes, an electronics shop enabling the assembly of electronics and manufacture of PCBs, a wood shop for frames and enclosures, and a rapid prototyping shop featuring the latest 3D printing and laser cutting technologies.

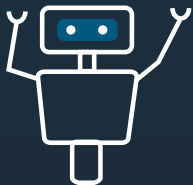
Texas Robotics already hosts a variety of research and collaboration spaces across the UT main campus and the Pickle Research Campus. The Anna Hiss Gymnasium serves as a hub of robotics activity on campus.



TEXAS ROBOTICS

CORE COMPETENCIES

General
Purpose
Autonomy



Human-
Robot
Interaction



OUR TEAM

40
affiliated
faculty

16
core
faculty

155
students
+ research
engineers
+ post-docs



TOP RANKED

Texas Robotics is a
partnership between four
Top 10 ranked departments

- ★ AEROSPACE ENGINEERING
- ★ COMPUTER SCIENCE
- ★ ELECTRICAL & COMPUTER ENGINEERING
- ★ MECHANICAL ENGINEERING



GRADUATE PORTFOLIO PROGRAM

Multidisciplinary robotics
training developing industry-
ready top talent

43 COURSES

Graduates earn a
Robotics Certification
with their diploma




STATE-OF-THE-ART FACILITIES



Over 55,000 sq feet, including
the cutting-edge, stunningly
reimagined Anna Hiss Gym
robotics research space, 4 shop
facilities, and a 1,225 sq foot
motion capture facility.

A person wearing military camouflage is holding a yellow and black remote control with a small screen. In the background, a vehicle with large black tires is visible on a grassy field.

AFFILIATE OPPORTUNITIES

A person is holding a drone with four propellers. The drone has a black frame, a battery pack, and various wires. The background is blurred, showing other people and equipment.

Membership in Texas Robotics' **Industrial Affiliate Program** is about creating the future of robotics at UT Austin and beyond. Because Austin, Texas, is emerging as a hotbed of technology and innovation, especially in the areas of robotics and artificial intelligence, we're dedicated to providing membership opportunities with valuable benefits to both small and large businesses, welcoming technology leaders bringing years of experience and research to the table right along with the smaller, growing businesses whose energy and fresh perspectives challenge the status quo in new and valuable ways.

What Does Texas Robotics Offer Industry Partners?

PREMIER ACCESS TO RESEARCH

Our industry partners have exclusive access to our cutting-edge research and innovations, from lab tours and live demos to fellowship opportunities and one-on-one research discussions with robotics faculty.

NETWORKING WITH OTHER PARTNERS

The Texas Robotics Research Symposium and VIP dinner are two of many opportunities partners have to connect over the innovations that are transforming their industries.

WORLD-CLASS TALENT RECRUITMENT

Affiliates have the opportunity to engage with and recruit our highly qualified students for co-ops, internships, and permanent positions.

INTEGRATION WITH THE TEXAS ROBOTICS COMMUNITY

Establish tight-knit relationships broadly across the many faculty and robotics labs at UT Austin that can be leveraged for the specific needs of your organization.

Sponsorship Benefits

FACULTY VISITS Annual visit at mutually agreeable dates and locations to industrial affiliate sponsor company from Texas Robotics faculty to present the latest research results from their lab(s).

EVENTS Two attendee registrations to the Texas Robotics Research Symposium and invitations to VIP events.

COLLABORATIVE RESEARCH Ability to submit a nominee for Research Associate, Research Fellow or Visiting Researcher/Scholar. Visiting lecturers and researchers may participate in in-class lecture series, student theses committees, and join in research with robotics faculty and students (subject to university guidelines).

CONSULTATION Work on campus with Texas Robotics faculty, staff, and students for periodic consultation regarding the most advanced technologies. Access live demos and lab tours and engage in tailored one-on-one research discussions with robotics faculty.

EDUCATION One affiliate-hosted technical talk or other facilitated on-campus event to interested students promoted by Texas Robotics and relevant academic departments.

ENGAGEMENT Opportunity for increased engagement with students through classroom interaction, such as guest lectures, projects, and/or mentorship in robotics-related courses.

PREMIER ACCESS Enhanced access to consulting through Texas Robotics contacts. Additional opportunities for faculty engagement in research collaborations, including use of affiliate equipment in on-campus research.

INVOLVEMENT Invitation to attend robotics-related talks and lectures conducted through relevant university speaker series.

RECRUITING Recruit highly qualified students for co-ops, internships and permanent positions through Consortium-facilitated dissemination of career and internship opportunities relevant to studies as provided by affiliate.

RECOGNITION Acknowledgement of sponsorship on the Texas Robotics website, on all promotional materials, and at all affiliated events.

annual
affiliation
costs

SMALL BUSINESS
\$10,000

STANDARD
\$50,000

Join the Texas Robotics Consortium, and be a part of shaping the future of robotics.

Based on the groundbreaking research of our world-class faculty across multiple departments and colleges, combined with fantastic support from the whole upper administration, it's been thrilling to be a part of The University of Texas becoming a world-wide leader in robotics.

- Peter Stone, Director, Texas Robotics

Learn more, and get involved

Contact us today | robotics@utexas.edu | robotics.utexas.edu



The University of Texas at Austin