UTDesign
Academic Innovations for Real-World Engineering and Computer Science Problems

ERIK JONSSON
SCHOOL OF ENGINEERING & COMPUTER SCIENCE
THE UNIVERSITY OF TEXAS AT DALLAS
UTDesign connects companies to teams of senior students from the Erik Jonsson School of Engineering and Computer Science at UT Dallas. These students, trained in the latest technologies, are eager to find answers to your company’s problems—offering creative ideas and resourceful solutions.

Student teams are assigned projects proposed by you. Working under the guidance of a faculty adviser, the team maintains regular contact with a mentor from your organization. At the end of the project, which serves as the capstone of each student’s undergraduate education, all results are turned over to the sponsor.
**Sponsor Benefits**

*Opportunity to recruit the best graduates from a talented, diverse and creative pool of students*

Progress on projects without expending current staff resources

Full ownership of results; potential for high return on a small investment

Relationships with faculty who are subject matter experts

Networking with students and other corporate sponsors

Branding of your company and products

**Students**

Our students are expected to act with professionalism and possess additional skills, including:

*Problem-solving and critical thinking*

*Project management, including planning, budgeting and scheduling*

*Effective communication and presentation ability*

*Technical proficiency*

*Adaptability, reliability and flexibility*

**Majors**

- Biomedical Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Mechanical Engineering
“Networking within the UT Dallas senior design program has enabled my company to reach specific goals within a short range of time given my available resources. Students were exposed to real-world problems and delivered an exceptional prototype. It has been a pleasure working with talented students and preparing them for entry-level positions in engineering.”

Trey Kasling
Kasling Aircraft Founder and CEO
Responsibilities

Sponsor and corporate mentor responsibilities include:
- Discuss potential projects with UTDesign faculty as early as possible
- Present final project proposal to students during the first week of the semester
- Host a kickoff meeting for the students and faculty mentor to finalize project deliverables
- Availability for mentoring students, ensuring progress and transferring technology
- Attend the UTDesign Expo

Deliverables

Depending on the nature of the project, companies may expect some of the following deliverables:
- Technical reports
- Drawings and design specifications
- Financial and marketing analysis
- Proof of concept prototype, computer programs and simulation models
- Final report
- Final oral and poster presentation
- Test and evaluation results during the UTDesign Expo

Cost

Support of our corporate partners is used to provide students with a working budget and to support the operation of the UTDesign program. Refer to our website for current pricing.

Process

1. Company Identifies Research Topic
2. Project Assigned to a UTDesign Team
3. Company Mentors UTDesign Team
4. UTDesign Team Delivers Results
5. Company Puts IP to Use

Expo

Each semester UTDesign teams formally present their results to an audience of faculty and industry professionals during the UTDesign Expo.
As a place where students and corporate partners create, innovate, design, build and learn, the UTDesign Studio, located at the Synergy Park North Center, provides more than 30,000 square feet of dedicated space. Each year, more than 400 students use the project labs, machine shop and innovation areas. A computer lab is available for exclusive use by students working on UTDesign projects.

Thanks to Our Founding Studio Sponsors:
Features

- Large welcome and reception area
- Sponsor acknowledgment and award center
- 80-seat seminar room
- Cisco Telepresence conference room
- Open project lab with 56 stations
- Secured project lab rooms
- Computer lounge
- TI Innovation Lab
- 3-D Printers
- Machine shop
- Makerspace
- 7 conference rooms

Partners

More than 150 companies have partnered with students through UTDesign, including:

- Texas Instruments
- Rockwell Collins
- AT&T
- Lennox
- Ericsson
- Perot Systems
- Pepsico
- Raytheon

Awards

- NATIONAL CAPSTONE DESIGN CONFERENCE
  1st Place Student Poster

- INTERNATIONAL ASME MANUFACTURING SCIENCE AND ENGINEERING CONFERENCE
  1st Place Student Design Competition