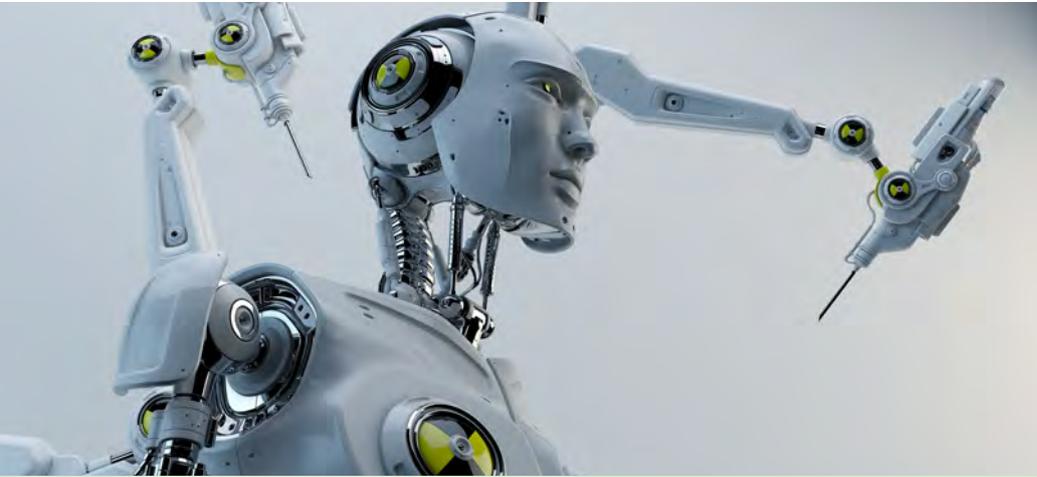


# SUTD CAPSTONE PROGRAMME



The Capstone project crystallises various learnings of a student and gives them a cumulative mastery of all their experiences at SUTD.

SUTD is set up to develop technically-grounded leaders and innovators who will contribute to improving the world. Believing that society is in need of technology-based services, products and systems, SUTD broke from tradition to provide students with a multidisciplinary curriculum delivered via a hands-on, collaborative learning pedagogy and environment. A key part of this philosophy is the Capstone project.

The Capstone project brings together students from different pillars to work in design teams, contributing their respective expertise and skills to solve real-world challenges. It also provides them with a realistic design situation where projects usually span multiple disciplines and require team-based efforts to create a solution.

SUTD would like to invite you to join us as Capstone Partners to provide real-world projects that challenge our students to think, innovate and develop solutions that will change the world.

## INDUSTRY-BASED CAPSTONE PROJECT

A Capstone project is an industry-based project which gives senior year undergraduate students the opportunity to practically apply the knowledge, principles, concepts and techniques they have learned to solve real-world, multi-discipline challenges. It aims to give students a holistic, integrative design experience that requires an extensive range of technological design skills and knowledge such as:

- Identifying needs
- Transforming needs into technical specifications or design strategies
- Applying modelling techniques and evaluating design alternatives
- Working as a team to resolve challenges in designing and producing a solution
- Validating solutions to meet specifications and needs



## CAPSTONE PROJECT PHASE

Students will work on the project mainly on-campus with SUTD faculty as instructors and Capstone Partners as mentors during the period January to August. It is a two-term integrated design experience in the senior year. The faculty instructors and mentors will jointly supervise and guide the project team to fulfill the project scope and deliverables. At the end of the project period, a final report will be produced and shared with Capstone Partners.

## VALUE TO CAPSTONE PARTNER

Capstone Partners can look forward to:

- Gaining access to design and technology orientated students to investigate your technical/business challenges at low cost and with minimal risks
- Owning intellectual property generated during the Capstone project
- Gaining access to a wide range of faculty technical expertise
- Having consistent exposure to gauge the abilities of students over the two-term (8-month) project duration to recruit the right talent with the right attitude and understanding of your business environment



## CONTRIBUTIONS FROM CAPSTONE PARTNER

Capstone Partners should provide:

- Projects that involve students from at least 2 different pillars
- Projects that have enough scope for 5-6 students per team
- Projects that last 2 terms (from January to August)
- Projects that fulfill university learning objectives
- Mentors who will work closely with students and faculty instructors
- A sponsored sum of at least \$5000 per team to cover design, prototype and project materials

## HOW TO PARTICIPATE AS A CAPSTONE PARTNER

Be a Capstone Partner simply by:

- Providing details of your proposed Capstone projects using the 'Project Form' brief. (Please request for an editable softcopy from the Capstone Office)
- The 'Project Form' brief will help to facilitate subsequent project scoping discussions with SUTD to fine-tune the proposals.
- When the project scoping is completed, the approved project will be accepted as a Capstone project for student application and placement during November and December.
- Signing the standard Capstone agreement letter. (Note: All intellectual properties generated during the Capstone project belong to the Capstone Partner. There are non-disclosure clauses to safeguard confidential information.)
- Completing project scoping discussions and signing of Capstone agreement letters latest by October, before the project starts in January the following year.

## CAPSTONE OFFICE CONTACT

For any queries, please contact the Capstone Office:

- Telephone: 6499 4076
- Email: [capstone@sutd.edu.sg](mailto:capstone@sutd.edu.sg)

### MORE ABOUT SUTD

The Singapore University of Technology and Design is established in collaboration with MIT to advance knowledge and nurture technically grounded leaders and innovators to serve societal needs. This will be accomplished, with a focus on Design, through an integrated multi-disciplinary curriculum and research.

There are four "pillars" or specialisations that prepare students for roles that involve design, technical leadership, and creative thinking:

- Architecture and Sustainable Design (ASD)
- Engineering Product Development (EPD)
- Engineering Systems and Design (ESD)
- Information Systems Technology and Design (ISTD)



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