SUTD Engineering Doctorate (EngD) Programme (Full-Time/Part-Time)

Programme Overview

The SUTD Engineering Doctorate (EngD) provides graduate students with industry-relevant training to enable the translation of research & development (R&D) efforts into tangible products, systems and services.

In general, the EngD is oriented toward research of a technical readiness level (TRL) of 3–4, compared with a PhD degree that is traditionally oriented toward a TRL of 1–2.

EngD students must demonstrate a high level of expertise in both theoretical scientific principles and the implementation of said theory on realistic and industry-relevant needs. EngD students will be co-supervised by SUTD faculty members and industry supervisors.

In addition to passing the EngD qualifying examination (within 2 years) and submitting an EngD thesis, students are required to complete the following coursework components: (refer to overleaf for more details)

- 4 Professional Development Short Courses
- 2 Technical Courses
- 2 PhD-Level Seminars

Candidature Period

Full-Time 3 to 5 years (Maximum candidacy of 5 years)
Part-Time 4 to 5 years (Maximum candidacy of 5 years)

Admission Requirements

Applicants should possess the following:

- At least a Bachelor’s degree or above with excellent academic standing
- Proficiency in English (IELTS or TOEFL is required if English is not your medium of instruction in your studies)

Admission Schedule / Deadline

There are two EngD intakes a year, in September and January. The deadline for each intake is:

September Intake: End of March
January Intake: End of September

Please apply at https://admission.sutd.edu.sg

Contact Us

Application, Admission & Scholarships:
Office of Graduate Studies: phd@sutd.edu.sg

View Faculty's Research Here:
https://asd.sutd.edu.sg/people/faculty/
https://epd.sutd.edu.sg/people/faculty/
https://esd.sutd.edu.sg/people/faculty/
https://istd.sutd.edu.sg/people/faculty/

View SUTD Research Centres Here:
https://sutd.edu.sg/Research/Research-Centres

View Selected Research Projects:
https://sutd.edu.sg/Admissions/Graduate/Graduate-Research/Projects-and-opening
Attractive Scholarship Funding

**Technical Courses**

These technical modules will provide EngD students with the core skills necessary for robust research. Some examples include (but are not limited to):

- **Engineering Product Development (EPD)**
  - Applied Mathematics for Engineering
  - Design Science
  - Computational Science and Engineering
  - Optimization and Control
  - Research Methods

- **Engineering Systems and Design (ESD)**
  - Linear Optimization
  - Operations Management
  - Probability Theory
  - Statistics
  - Stochastic Modeling

- **Information Systems Technology and Design (ISTD)**
  - Analysis of Algorithms
  - Computer Networks
  - Machine Learning
  - Software Engineering
  - Wireless Communications and Networking

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<th>Economic Development Board (EDB) Industrial Postgraduate Programme (IPP)</th>
<th>SUTD Graduate Scholarships</th>
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| The EDB-IPP offers you the opportunity to pursue a company-related research project as your EngD thesis while continuing as a full-time company employee. **For IPP Partnering Companies**
  - Must be based in Singapore
  - Have an established corporate R&D presence in Singapore (i.e. Doctorate-level researchers, good track record of research activities, etc.)
  - Committed to supporting IPP trainees toward attaining MEng or Doctoral qualifications **For IPP Trainees**
  - Singapore Citizens / PRs only
  - Eligible to pursue MEng or Doctoral studies
  - Must be an employee of the Partnering Company (may be either new or existing employee) | **SUTD President’s Graduate Fellowship**
  - Open to all nationalities
  - Full tuition fees
  - Monthly stipend of:
    - S$3,500 (Singapore Citizens)
    - S$3,200 (Singapore Permanent Residents)
    - S$3,000 (International Students)
  - CPF contribution (Singapore Citizens only)
  - Annual conference funding support
  - Opportunities for sponsored overseas research, attachments and industry internships **SUTD EngD Fellowship**
  - Open to all nationalities
  - Full tuition fees
  - Monthly stipend of:
    - S$3,200 after passing Qualifying Exam (Singapore Citizens)
    - S$2,700 after passing Qualifying Exam (Singapore Permanent Residents)
    - S$2,500 after passing Qualifying Exam (International Students)
  - CPF contribution (Singapore Citizens only) |

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<th>Professional Development Short Courses</th>
<th>Technical Courses</th>
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<td>These short courses will provide EngD students with a well-rounded and holistic education. Topics covered include:</td>
<td>These technical modules will provide EngD students with the core skills necessary for robust research. Some examples include (but are not limited to):</td>
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| **Intellectual Property (IP) Clinic**
  Learn more about the fundamentals of IP and why it is an essential part of a business growth strategy. | **Engineering Product Development (EPD)**
  - Applied Mathematics for Engineering
  - Design Science
  - Computational Science and Engineering
  - Optimization and Control
  - Research Methods |
| **Scientific and Grant Writing**
  Develop your scientific writing and grant proposal writing skills. | **Engineering Systems and Design (ESD)**
  - Linear Optimization
  - Operations Management
  - Probability Theory
  - Statistics
  - Stochastic Modeling |
| **Entrepreneurship**
  A practical-oriented course that teaches you how to turn business or product ideas into a successful commercial venture. | **Information Systems Technology and Design (ISTD)**
  - Analysis of Algorithms
  - Computer Networks
  - Machine Learning
  - Software Engineering
  - Wireless Communications and Networking |
| **Private Equity (PE) & Fund Raising for Businesses**
  Acquire practical knowledge, competencies and key insights regarding the PE industry. | |
| **Corporate Grooming & Personal Branding**
  Groom your professional image and build up your business etiquette for better work relationships. | |
| **Leadership & Teamwork**
  Learn how emotional intelligence can positively impact team dynamics and professional engagements. | |