SUTD PhD Programme

SUTD

SINGAPORE UNIVERSITY OF
TECHNOLOGY AND DESIGN

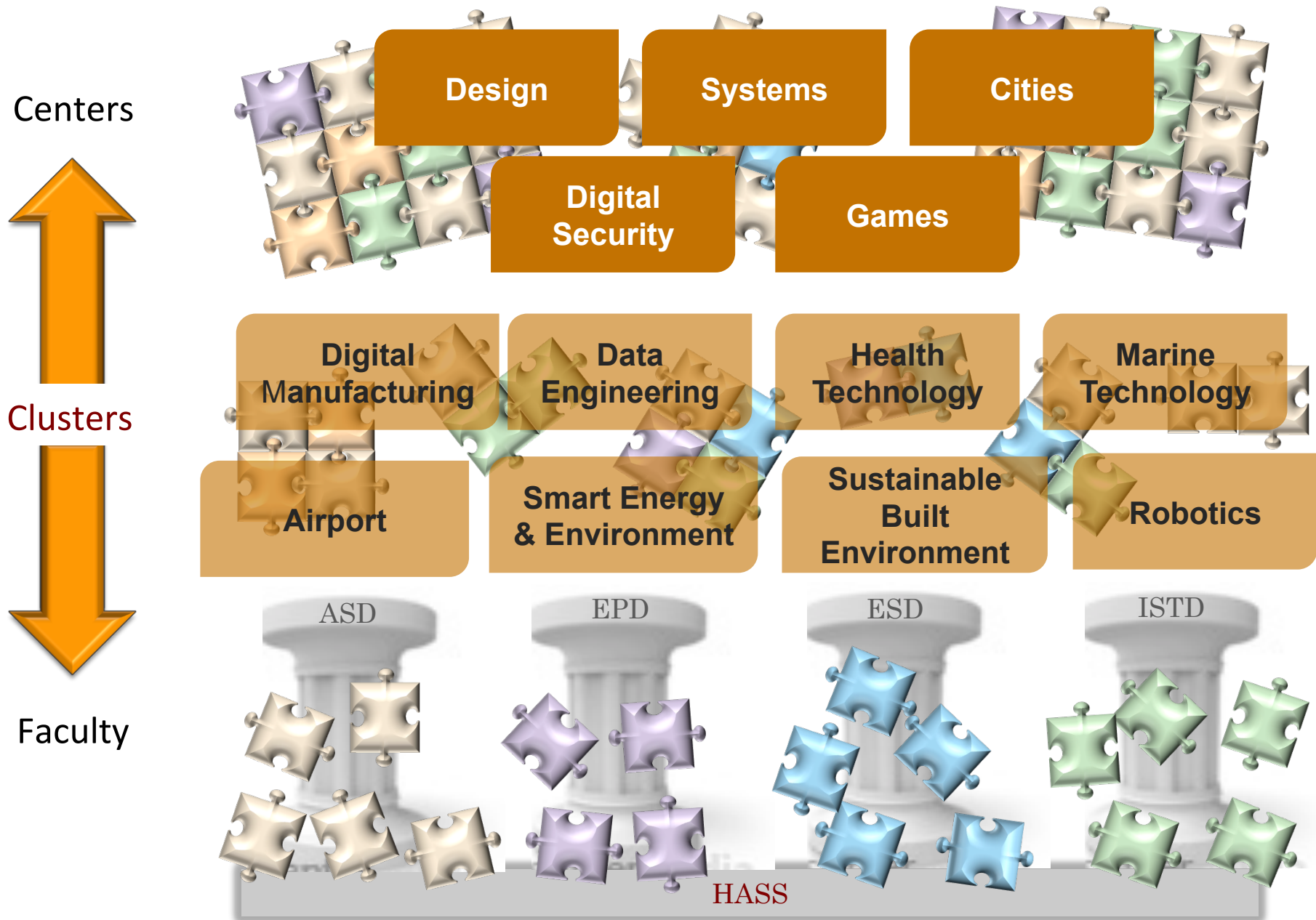Established in collaboration with MIT

SUTD PhD Programme

Doctor Of Philosophy in:

- **Engineering Product Development (EPD)**

- **Engineering Systems and Design (ESD)**

- **Information Systems Technology and Design (ISTD)**

- **Architecture and Sustainable Design (ASD)**

SUTD Research...

Centers

- Design
- Systems
- Cities
- Digital Security
- Games

Clusters

- Digital Manufacturing
- Data Engineering
- Health Technology
- Marine Technology
- Airport
- Smart Energy & Environment
- Sustainable Built Environment
- Robotics

Faculty

ASD EPD ESD ISTD

HASS

INFORMATION SYSTEMS TECHNOLOGY AND DESIGN

Focuses on "Information Technology" and its relationship with the world around. Integrates traditional disciplines of Computer Science, Computer Engineering and Information Systems.

- Artificial intelligence
- Game design and development
- Human computer interaction
- Information retrieval
- Information security and communication
- Multimedia studies
- Software engineering
- Networking
- Signal processing

ENGINEERING SYSTEMS DESIGN

Concerns with the design, optimisation and management of large scale complex engineered systems:

- Supply chains and logistics
- Financial services
- Health care delivery systems
- Transportation systems
- Security and defence systems
- Energy production and distribution systems

ENGINEERING PRODUCT DEVELOPMENT

Covers the conception, design, implementation and operation of technology-intensive products, with emphasis on products whose development cuts across boundaries.

Product sectors currently addressed are electronics, energy, machinery, and transportation.

ARCHITECTURE AND SUSTAINABLE DESIGN

Considers architecture and urban futures from a strong engineering perspective that emphasises:

- Performance and efficiency
- Systems perspectives and management
- Environmental consciousness and business innovation
- Advanced design methodologies

Singapore University of Technology and Design, UNStudio / DP Architects

Preparing you for a career headstart

Stimulating multi-disciplinary environment; modern design experience

World-class faculty at the forefront of their fields – flexible multidisciplinary mentoring

Research collaborations with industry

Cutting-edge research. Contemporary coursework.

Mentored teaching opportunities

Research exchanges at top universities worldwide

Overseas or local internships

Innovation and Entrepreneurship programme

Professional development programme

Placement starts on day one!

Attractive Scholarships

SUTD President's Graduate Fellowship

Sponsorship:

- Full tuition fees
- Monthly stipend of S$3,000 for each awarded scholar
- Annual conference funding support
- Opportunities for overseas research exchanges and/or industry internships

Other industry-based scholarships available

Apply Now

Online Application Deadline: 28 February 2014

Potential applicants should possess at least a Bachelor's degree with excellent academic standing.

Looking for: Aspiring leaders and trend-setters.

www.sutd.edu.sg/phd

Supporting Documents

☐ TOEFL or IELTS (for non-English based Bachelor degrees)

☐ GRE – ASD & ESD (required) EPD & ISTD (recommended)

☐ Statement of Objectives/Interests

☐ Letters from 3 recommenders

☐ Publications list and preprints (if any)

WIRELESS NETWORKS AND DECISION SYSTEMS GROUP

WNDS Group at SUTD
World Leading Research Program

WNDS Group at SUTD

- WNDS Group at SUTD – a **world-class** research lab for ultra-broadband

- Vibrant and productive group work on **important** and **cutting edge** problems

- Attracts **world-class** graduate students, postdocs, visiting students, professors

- Home for **impactful** and **high-quality** research outcome

- **Well-known** and **highly regarded** by peers and leaders of the community

Prof. Tony Quek (PhD, MIT)

☐ **Current Research Topics**

Cooperative networks, heterogeneous networks, green communications, smart grid, wireless security, big data processing, compressed sensing, and cognitive radio.

☐ **Major Awards**

◘ 2013 IEEE SPAWC Best Student Paper Award

◘ 2012 IEEE William R. Bennett Prize

◘ CAS Fellowship for Young International Scientists in 2011

◘ IEEE Globecom 2010 Best Paper Award

◘ Philip Yeo Prize for Outstanding Achievement in Research, 2008

☐ **Recent Professional Activities**

◘ Associate Editor for IEEE Trans. Comm. and IEEE Wireless Comm. Letters

◘ Comm. Theory Symposium Chair, WCSP 2013

◘ Comm. Theory Symposium Chair, ICC 2015

PhD Opportunities at WNDS Group

Looking for **creative**, **self-motivated**, and **independent** students with **good** GPA and strong background in **Math**. **Passionate**, **hardworking**, and highly **competitive** individuals.

Some possible topics include:

☐ **Big Data Processing, Smart Grid, Heterogeneous Networks, Wireless Security, and others**

Opportunities at WNDS Group:

☐ Work on challenging problems and compete with the best.

☐ Meet the best people in the group.

☐ Visit top universities/groups during PhD program like MIT, Caltech, Princeton, UIUC, UT Austin, Supelec ,Stanford, etc.

Overview of Research Opportunities

✓ Fully funded PhD opportunities at SUTD from Sep 2014.

✓ Short-term funded research attachments.

✓ Short-term & long-term visits.

✓ Postdoc positions.

If you are interested, please email me your CV.
Email: tonyquek@sutd.edu.sg

For additional information, see http://faculty.sutd.edu.sg/~tonyquek/

THANK YOU

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