



Institute for Engineering Leadership
Faculty of Engineering

INFO SESSION
FOR

TECHLAUNCH (MT5913)
SEM1 2020/2021



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TECHLAUNCH



- **Translating technology** to real market needs... and commercialize them
- Each team is assigned a patented technology
 - from NUS R&D or local MNC, SME or startups

Program Information

- 1 semester (13 weeks)
- Open to all graduate students at NUS
- 4 MCs credit
- Runs every semester
- Meet Industry Leaders



TECHLAUNCH

... TAKING A TECHNOLOGY TO MARKET



- A 13-week programme that...



while Learning about Engineering Leadership Skills allows the students to...

- Meet Entrepreneurs, Leaders
- Get into Multi-Disciplinary Teams and...



Lawrence Bradley
Seasoned Director
Asia Pacific Region



Eric Loh
CEO
Trendlines Medical

TECHLAUNCH

Discuss within Teams... and figure out the Solution



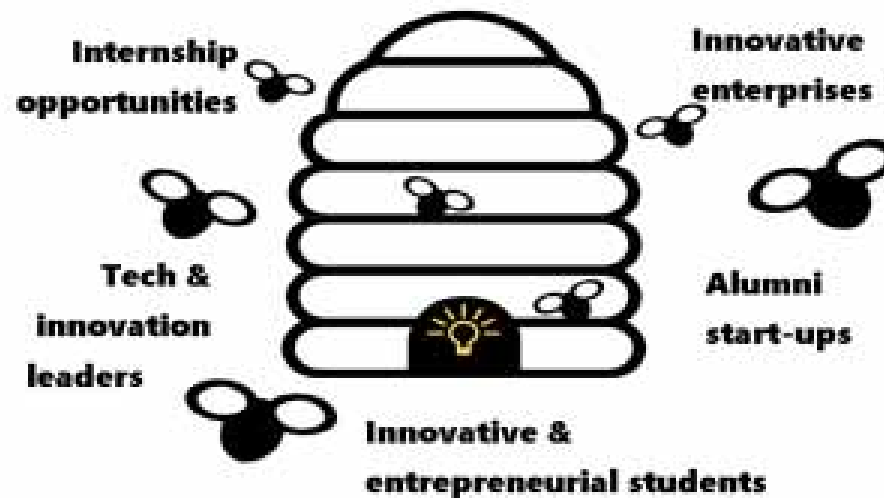
While having fun, as they develop the plans for the Startup



PRESENT YOUR PROJECTS TO INDUSTRY: R&D
DIRECTORS, INCUBATORS, VC FUNDS

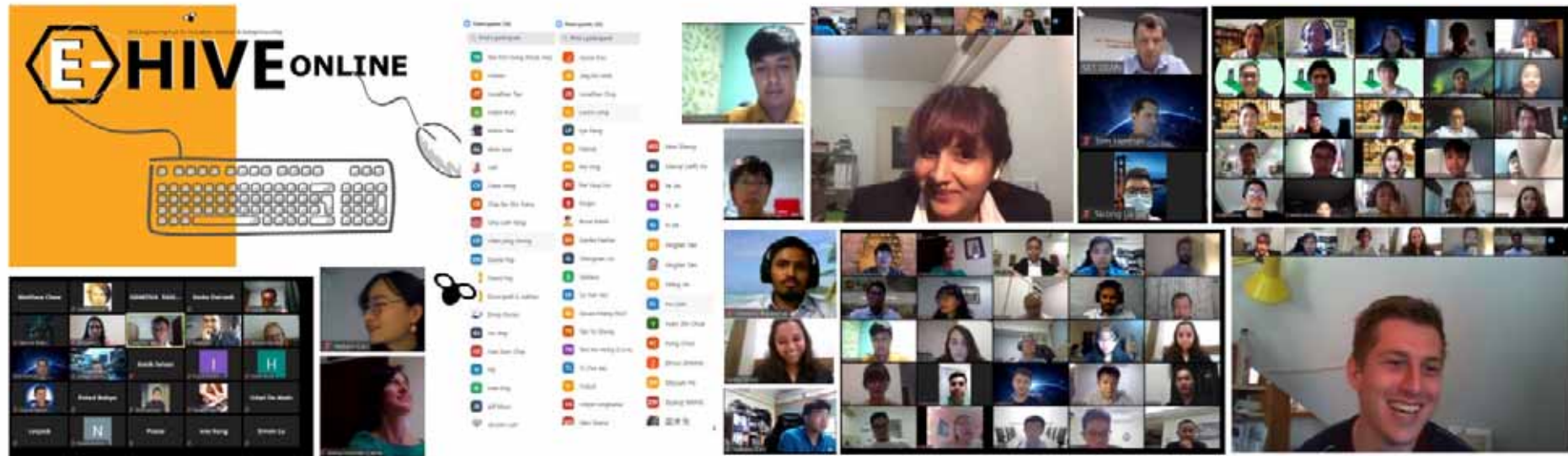


Welcome to E-HIVE!



E-HIVE – HIGHLIGHTS

PITCHING, TALKS AND FUN











PAST PROJECTS

- 70+ technologies in past 5 years
- Technologies from
 - NUS (PIs, RF/RE and PhD students)
 - A*Star
 - MNCs
 - SMEs
 - Startups



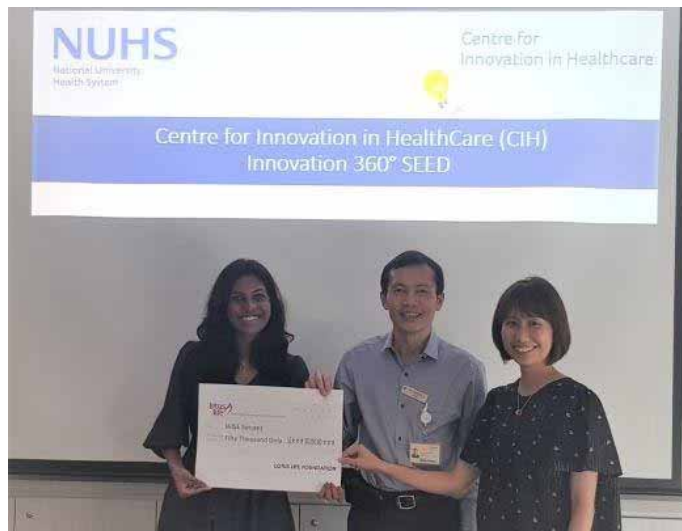
SELECTED START-UP COMPANIES BY STUDENTS FROM TECHLAUNCH

	Tech / Business	Founder	Year	Status
 Structo [®] Empowering Dental with 3D	3D Printing for Dental Implants	Huub van Esbroeck (MOT graduate)	2014	Branches & Sales in UK, US & Asia. In Series C funding currently
 ROCESO TECHNOLOGIES	Soft Robotics for Rehab & Assistance	Jane Wang (MSc in IP Mgt)	2016	Approved by FDA. Sales partners in East Asia & India. In Series A funding
 FlexoSense	Flexible sensor to measure dynamic pressure and strain	Joo Chuan Yeo (PhD – NGS)	2016	Currently in Clinical Trials Seed stage with Angel Investors & Govt Grants.
 MICROTUBE TECHNOLOGIES	Ultrathin tubular sensor for gaming & robotics	Yu Longteng (PhD – BME)	2018	Pre-seed stage. GRIP funded. In Product Devt
 EEA	Smart phototherapy for infant jaundice	Li Shihao (PhD- BME)	2019	Clinical studies ongoing. Won pre-series A funding
 breathonix	Detects lung cancer, TB, etc from the breath	Jia Zhunan (PhD – NGS)	2019	Seed stage with GRIP. Won \$50k at Slingshot
 H2C Heat → Cool Your Energy Efficiency Partner	Tech to convert heat to cooling or electricity	Fahid Riaz (PhD - Mech Engg)	2019	Product Devt ongoing. Seed stage with GRIP
 Cellivate Technologies	Inorganic Thin Film to enhance cell growth	Viknish Krishnan Kutty (PhD – BME)	2019	Currently sampling to Cultured meat & stem cell companies. GRIP funded

RECENT STUDENTS & PROJECTS



- **Breathonix**
 - CEO – Jia Zhunan
 - COO – Du Fang
 - Winner of \$50k at Slingshot 2019



- **WISE**
 - TechLead – Viveka
 - Winner of \$50k from CIH/Lotus Foundation 360seed Funding

RECENT STUDENTS & PROJECTS

- **Quantum TX – BICEPS Project**
 - CEO – Ivan Goh
 - CTO – Li Jingze
 - Featured in Straits Times in Dec 2019



- **YSI South East Asia**
 - CEO – Irsyad Ramthan
 - Southeast Asian community that actively tackles evolving sustainability issues
 - Working with Youth from the region



TECHLAUNCH: PROJECTS FOR THIS SEMESTER



SensAI: A fast package seal integrity testing technology for manufacturing

Copper Composite: A composite wire that carries more current than copper but is also much lighter

E-Skin: Artificial E-skin that can sense both applied pressure and location of pressure on a flat or curved surface

Emotion-AI: Emotion Recognition AI – technology that is able to analyze emotion in real time

Green-COP: A Process that speeds up Biomass Waste Treatment

QSignage: A Smart Digital Advertising Screen for Rural Asia



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Click for
Attendance



WHAT DO YOU GET FROM THIS MODULE?

Personal Development

- Meet and learn from guests speakers
 - CEOs, Entrepreneurs and industry leaders
- Learn to translate from **Tech** to **Product** to **Value** to customers
- Dabble with **Business functions** in a safe environment
- Get actual experience of **Entrepreneurship**
- Learn **Engineering Leadership skills**
 - Leadership styles, team development, communication, etc...
- Work with the **Business, Sales & Marketing**
 - Discover new markets!



NEXT STEPS

STEP 1:

For All Students - If you are interested then:

- Sign up for the course and your project by clicking on the QR code below



Enterprise Development



TechLaunch

- Attend the first class on Zoom
- MT5920 (Enterprise Development) – 6pm on 17th Aug 2020
- MT5913 (TechLaunch) – 6pm on 13th Aug 2020

STEP 2

For ISEM Students:

- Sign up for the course on <http://www.nus.edu.sg/ModReg/> for MT5920 (Enterprise Development) and MT5913 (TechLaunch)
 - 1st round is opens on 23rd July and closes on 27th July at 12noon

For all other Students:

- Utilize the [**Submit Module Requests**] function to request for non-programme requirement modules (i.e. cross-faculty modules).
 - 2nd round is open 30th July and closes on 3rd Aug at 12noon
 - The request will go through a two-step approval process: it is first routed to the home department for decision before approved requests are routed to the module host(s) for final assessment
- Round 3 – starts on 5th Aug at 9am & closes on 6th Aug at 12noon
- Appeals are done on the 3rd round

Q & A

For further assistance contact:

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FOR MORE INFORMATION

Please visit our IEL website: <http://www.eng.nus.edu.sg/iel/>

Or connect with us on

LinkedIn: <https://www.linkedin.com/groups/10328061>

Facebook: <https://www.facebook.com/IELNUS/>

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