**MAKING & TINKERING**
**(RESEARCH ATTACHMENT 3)**

The unique Making and Tinkering course introduces scholars to product prototyping. The ubiquity of open-source hardware and software allows scholars to design, code and build prototypes for applications in Science & Engineering. Scholars gain hands-on experience in iterative prototype design, development and presentation, guided by experienced mentors. Through this course, scholars gain a strong understanding of the development phase of a Research & Development (R&D) cycle.
CN YANG SCHOLARS PROGRAMME (CNYSP)

The CNYSN nurtures future leaders at the interface of science and engineering, with a focus on technological innovation and scientific communication. Empowered by a strong science and engineering training, the multidisciplinary courses in mathematics, research, making-and-tinkering, internship and global learning prepare students to lead in the next phase of technological evolution. Scholars will embark on this unique journey which truly embrace the spirit of innovation, persistence and social capital, allowing them to make impact in a diverse range of careers they wish to embrace in the future.

WHY CHOOSE CNYSP?

- Scholarship Award
- Multi-Disciplinary Curriculum
- Overseas Final Year Project
- Overseas Learning Trip
- Global Exchange Experience
- Innovation Driven Projects
- Guaranteed Hall Stay
- Peer Support System
- Meeting World Class Leaders in Science and Engineering
- Joint PhD at NTU/Overseas University (Optional)

OVERSEAS LEARNING TRIP

University of Warwick, UK

Michigan Technological University, USA

European Organization for Nuclear Research, Switzerland

SCHOLARSHIP AWARD

NANYANG SCHOLARSHIP

Subsidised tuition fees after tuition grant
Living allowance of $55,500 per annum
Travel grant of $55,000 for overseas study or exchange programme (one-off)
Accommodation allowance up to $52,000 per annum for scholars in NTU halls only
Computer allowance of $51,750 (one-off)

No bond is attached to the Nanyang Scholarship apart from the 3-year bond applicable to all Singapore PRs and international students under the MOE Tuition Grant Scheme.
Recipients of other scholarships are eligible to apply for CNYSP.

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ENGINEERING

- Aerospace Engineering
- Bioengineering
- Chemical & Biomolecular Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical & Electronic Engineering
- Environmental Engineering
- Materials Engineering
- Mechanical Engineering

SCIENCE

- Biological Sciences
- Chemistry & Biological Chemistry
- Environmental Earth Systems Science
- Mathematical Sciences
- Physics & Applied Physics

COURSE ELIGIBILITY

OVERSEAS FINAL YEAR PROJECT (OFYP)

CN Yang Scholars will undertake their Overseas Final Year Project as a research attachment at a reputable overseas university for up to 8 months, with full financial support from this programme.

This allows scholars to gain insights into the breadth and diversity of research work in an international environment, thereby providing them with an all-rounded and enriching learning experience.

Lee See Hian @ Peking University, China
Electrical & Electronic Engineering, Year 4
Overseas Supervisor: Professor Duan Lingyu
Project Title: Reflection Removal towards High-Performance Fine-Grained Object Search

Pek Jie Hui @ University of Cambridge, UK
Chemistry and Biological Chemistry, Year 4
Overseas Supervisor: Professor Matthew Gaunt
Project Title: Multicomponent Synthesis of γ-Amino Boronic Esters by Visible Light-Mediated Olefin-Hydroamination

Emily Fatima Yunan @ Carnegie Mellon University, USA
Mechanical Engineering, Year 4
Overseas Supervisor: Dr John M Dolan
Project Title: Drifting in Autonomous Vehicles in Executing Evasive Maneuvers

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Mechanical Engineering, Year 4
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