THE BEST WAY TO LEARN IS TO EXPERIENCE

From sparking inspiration and nurturing ideas, to enabling innovation and making an impact, we believe in the power of experiential learning. Our students are given a myriad of opportunities to put theory to the test, ensuring that they are industry-ready even before they graduate.

hands-on learning
- Practice experience in operating and performing industrial tasks
- Hands-on learning in action
- Students are mentored to plan, produce and polish symbol prototype in an industry setting

undergraduate research experience on campus (U'RECA)
- University-wide research programme for top-undergraduates
- Over 600 research projects to choose from

final year project
- In-depth study and investigation of a chosen project
- Develop research plan and deliver a final report
- Deliver an oral presentation

product development challenge
- Open-ended team projects to define real-world problems and develop solutions
- Opportunity for collaboration in international competitions

engineering innovation and design
- Technological innovations in action

flexible curriculum:
- BACHELOR OF ENGINEERING (Aerospace Engineering)
  - Aerodynamics
  - Flight mechanics and control
  - Aerospace materials and structures
  - Aircraft propulsion
- BACHELOR OF ENGINEERING (Mechanical Engineering)
  - Mainstream
    - Mechanical Engineering
    - Manufacturing Engineering
    - Mechatronics Engineering
    - Naval Architecture and Marine Engineering
  - Design
    - Computer-aided Engineering
    - Computer-Aided Design
    - Human Factors Engineering
    - Manufacturing
  - Product Development
    - Product Design
    - Product Development Management

Diverse possibilities:
- Robotic & Mechatronics
  - Machine intelligence
  - Mechanical Design
  - Industrial Design
  - Microsensor System Design
  - Machine Software
  - Robotics

The school of Mechanical and Aerospace Engineering (MAE) has always endeavoured to challenge the status quo and break new grounds to become the premier institution in education, research and innovation. This is particularly important in today’s fast-paced and ever-changing world.

Be amazed

INNOVATION > IDEAS > INSPIRATION > IMPACT

The School of Mechanical and Aerospace Engineering (MAE) boasts a holistic education programme that ensures its students are “get your hands dirty” ready to make an impact in industry and beyond. Mentored with training programs for Singapore’s needs since the 1940s, MAE is poised to take on the role of the top engine for providing the very best education on campus. Through constant collaboration and consultation with our industry partners, we regularly update our curriculum to ensure that our students gain the right knowledge and skills to contribute to an evolving global economy.

To deliver the best education, the school is also home to the best minds from all top institutions around the world. Our faculty is at the forefront of research, leading cutting-edge work that can potentially shape the future of technology. MAE is also the place where the world’s best in research and education come together to provide students with the most comprehensive and interdisciplinary education possible. We are proud of our faculty and students and we will continue to provide students with the most comprehensive and interdisciplinary education possible.

9. SANGHEE
Chairman, Masahiro Industries
Dynamic Leadership and Visionary Thinking

10. MUHAMMAD
Chairman, Singapore Aerospace
Innovative Thinking and Creative Ideas

11. LUI XEN
Vice-President, Singapore Aerospace
Strategic Vision and Global Leadership

12. PROFESSOR LOUIS PINEE
Chair, School of Mechanical and Aerospace Engineering
Innovative Thinking and Creative Ideas

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46. In MAE, I have been given opportunities to explore cutting-edge technologies such as additive manufacturing (3D printing), data analytics, design thinking, robotics, and scientific computing. This is the only place that I have ever felt passionate about. The only place where I feel I can achieve my dreams.

47. The curriculum is very well-structured. We are encouraged to explore the possibilities of what we can achieve and are given the freedom to experiment. My experience with the Mechanical Design Lab at MAE has been amazing. I was able to design a robot that can walk and I was able to design a robot that can walk.

48. DISCOVER more at www.nus.edu.sg or email us at admission@nus.edu.sg today

49. NUS is a great place to be and I have been given opportunities to explore cutting-edge technologies such as additive manufacturing (3D printing), data analytics, design thinking, robotics, and scientific computing. This is the only place where I feel I can achieve my dreams. I am very happy that I am a part of the NUS family.

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UNDERGRADUATE RESEARCH EXPERIENCE ON CAMPUS (URECA)

• University-wide research programmes for top industry partners
• Over 100 research projects to choose from

HANDBS-ON LEARNING

• Compulsory module in Year 1
• Practice experience in operating and performing industry tasks

ENGINEERING INNOVATION AND DESIGN

• Technology in action
• Students are mentored to plan, produce and publish an industry-style project in an industry panel

FLEXIBLE CURRICULUM, DIVERSE POSSIBILITIES

BACHELOR OF ENGINEERING (Aerospace Engineering)
• Aerodynamics
• Flight mechanics and control
• Aerospace materials and structures
• Aircraft propulsion

BACHELOR OF ENGINEERING (Mechanical Engineering)
• Mainstream
• Automotive Engineering
• Energy and Environment
• Manufacturing Engineering
• Biomedical Engineering
• Naval Architecture and Marine Engineering
• Design
• Computer aided engineering
• Product Design and Engineering
• Product Development Management

ROBOTICS & Mechatronics
• Machine intelligence
• Mechatronics and Industrial Design
• Embedded systems and automation
• Mechatronics Systems
• Mechatronics Software
• Robotics

LEARN FROM THE BEST

• In UEC, students have the opportunity to explore cutting-edge technologies such as additive manufacturing (3D printing), nanotechnology and AI

9. SAMEETKA

R. P. S. College of Engineering, Punjab, India

The curriculum is very well-machined. We are encouraged to take responsibility for our actions, whether it be in class or in the community. I believe we are being prepared to address the challenges of the future with confidence.

10. KEVIN CHIA

Keats Hall, Singapore, Singapore

As a President (s), I oversee our Student Societies and work closely with the industry partners on various projects. These experiences will prepare us for a successful career in industry.

11. PROFESSOR LOUIS FIORE

University of Dundee, UK

The School of Mechanical and Aerospace Engineering (SMAE) has always endeavored to challenge the status quo and break new grounds to become the premier institution in education, research, and innovation. This is particularly important in today's fast-paced and ever-changing world.

MAS builds a holistic education programme that prepares its students to "get their hands dirty" while making an impact in industry and beyond. Maintained with training programmes for Singapore’s needs since the 1960s, SMAE is one of the very best education centres in Asia. Through constant collaboration and education with our industry partners, we regularly update our curriculum to ensure that our students gain the right knowledge and skills to contribute to an evolving global economy. To deliver the best education, the school is also home to the best minds from all the top institutions around the world. Our faculty are at the forefront of research, leading cutting-edge work that can bring about change and impact in the world. We are proud to be part of this research and education ecosystem, working closely with our research partners and leading industry partners to ensure that our research strengths and MAS are harnessed to continue to provide students with the best educational solutions to the industry: Innovation in the SIA, as well as the future of Industry 4.0 and students shaping our technologies and successfully training of our students to communicate our research and impact across technological streams. These experiences will prepare us for a successful career in industry.

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At MAE, we bridge the gap between aspiration and ability. We cultivate the potential of our students by encouraging creative thinking and developing their scientific, practical, and soft skills, giving them the tools they need to engineer the future.

Our capabilities in innovation, research, and development have attracted many corporations, local and multinational, to collaborate with us.

At MAE, enduring ideas take off and take shape as business innovation. Our spin-off companies, engineered by our faculty and students and supported by the industry, continue to make waves in their business-savvy applications of robotics, artificial intelligence, automation, and more.

We use technology as an enabler and innovation as a means to make a lasting difference to academia, business, society, and people.

ONE NATION (AND A ROBOT) TOGETHER

Meet the Wooden Wonder

Inspiring technologies to make a difference.

At MAE, a wooden robot from a heap of wood and glue is engineered into a learning aid to teach children the principles of renewable energy.

Measuring the robot's success is the amount of smiles and curiosity it generates.

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JOIN OUR FACULTY
Tenured/Tenure-Track
Assistant/Associate/Full Professor in
Mechanical and Aerospace Engineering

BE THE SOURCE
OF INSPIRATION

Our 2,500 undergraduates and over 100 research students look to faculty members for guidance and mentorship. As a member of the faculty, you’ll lead them at the forefront of the future.

NUS is one of the largest mechanical and aerospace engineering schools in the world, with well-established partnerships with other universities and industry. We provide an active and vibrant research environment with excellent R&D infrastructure and ample opportunities for research funding.

We’re looking for well qualified candidates to join us

THE ROLE
• Teach at both the undergraduate and graduate levels
• Supervise graduate and undergraduate student projects
• Acquire research funding and conduct research

YOUR PROFILE
• Possess relevant Bachelor and PhD degrees from reputable universities
• A good research track record and postdoctoral experience would be advantageous

Learn more about our faculty positions @
www.maes.nus.edu.sg today

To apply, submit your detailed CV and completed Personal Particulars Form to
maesfacultysearch@nus.edu.sg

Nanyang Technological University | School Search Committee
50 Nanyang Avenue, Singapore 639798 | maesfacultysearch@nus.edu.sg

It would be helpful if you could provide your Research ID or ORCID.

Applications remain open until the available positions are filled.
Only shortlisted candidates will be notified.