

# SCHOOL OF ENGINEERING



## EMBRACE INNOVATION

Just think about it – who gave us electricity, cars, planes, computers, mobile phones and the Internet? These inventions have dramatically changed the way we live and work, and the brains behind them are none other than engineers, the architects of the future!

Engineers are so central to the progress of society that they are always in great demand. Come join our School of Engineering (SEG), and you too can look forward to exciting careers and further study opportunities. At SEG, you will receive a well-balanced engineering education, and benefit from our excellent industry partnerships.

### Why Engineering?

- Engineering empowers you to translate the knowledge of science and technology into ideas for new products to make the world better, faster or smarter.
- Engineering professionals enjoy attractive starting salaries and diverse career choices, ranging from management to R&D.
- With our engineering diplomas well-recognised by reputable local and overseas universities, you can build a firm foundation in engineering that will open doors for you to exciting career possibilities and further studies.

### Why SEG?

- Our graduates excel wherever they go; some are forging careers with MNCs, with high starting salaries, while others start their own businesses.
- Many of our graduates further their studies in reputed local and overseas universities; many are scholars of major corporations and government agencies.
- Our innovation-based curriculum, state-of-the-art facilities and excellent industry exposure provide an enriching learning experience for you to achieve a well-balanced and highly relevant engineering education.
- Our strong industry links ensure that our courses are relevant to the needs of industry.
- We are a leader in science and engineering R&D, with many innovations that contribute to the engineering field. You will benefit from this exciting intellectual environment.
- Every year, our students excel in local and international competitions, like the Microsoft Imagine Cup, Singapore Android Developer Challenge, Code:XtremeApps, Tan Kah Kee Young Inventors' Award, Singapore Robotic Games, WorldSkills Competition and the FIRA RoboWorld Cup.

### Industry-linked

Our strong industry ties will enable you to learn in a holistic environment, using the latest technologies and up-to-date curriculum. We are proud of our strong and intensive partnerships with leading technology companies, including Microsoft, Siemens, DSO National Laboratories, Festo Pte Ltd and Hewlett-Packard. We are also the only institution to host various centres supporting enterprises in Singapore, including:

- The Centre of Innovation for Electronics with SPRING Singapore
- The MedTech Concept@NYP, a biomedical hub for collaboration among biomedical companies
- Industry Communities@NYP, comprising the IC Community, Wireless Community, Embedded Systems Community and Security Technology Community, supported by EDB
- The Centre for Digital & Precision Engineering, jointly funded by EDB

### Minimum Entry Requirements

- |   |             |
|---|-------------|
| a) English Language                     | Grade 1 - 7 |
| b) Elementary or Additional Mathematics | Grade 1 - 6 |
| c) A relevant Science subject           | Grade 1 - 6 |

### Enquiry Hotlines

Please contact us at **6550 0509/0511/0512** for enquiries on the following diplomas:

- Aeronautical & Aerospace Technology
- Biomedical Engineering
- Digital & Precision Engineering
- Manufacturing Engineering
- Mechatronics Engineering
- Nanotechnology & Materials Science

Please call **6550 0836/0400** for enquiries on the following diplomas:

- Aerospace Systems & Management
- Electrical Engineering with Eco-Design
- Electronics, Computer & Communications Engineering
- Multimedia & Infocomm Technology
- Telematics & Media Technology

You can also visit [www.nyp.edu.sg/seg](http://www.nyp.edu.sg/seg) for more information.

JAE CODE:  
**C51**

# DIPLOMA IN **AERONAUTICAL & AEROSPACE TECHNOLOGY**

Rise to the challenges of aerospace engineering with the Diploma in Aeronautical & Aerospace Technology. You'll be well-prepared for a high-flying career in this dynamic industry, as you build a firm foundation in engineering fundamentals, cutting-edge aeronautical design and research, as well as aerospace technology and processes.

Singapore is fast becoming a regional aviation hub, with many multinational aerospace companies setting up base here. With the industry needing at least 1,000 new aerospace professionals annually, where your career prospects are concerned, the sky's the limit!

### **This fits me to a T!**

This is the course for you, if you're:

- Fascinated with airplanes and keen to learn new skills
- Eager to work on the latest state-of-the-art aircraft through attachments with leading aerospace companies
- Keen to learn cutting-edge aeronautical design and research, as well as aerospace technology and processes

### **What will I learn?**

- Fundamentals of Aerospace Engineering
- Aerospace and Aeronautical principles, Composite Materials Technology, Aerospace Manufacturing, Design, Analysis and Testing
- Emerging trends in Aerospace Engineering through practical hands-on training
- Industry practices through attachments with leading aerospace companies

### **I want a great career!**

You can look forward to lucrative career prospects in:

- Aerospace Manufacturing
- Aerospace Maintenance, Repair & Overhaul
- Design, Analysis, Simulations & Testing of Aircraft Components
- Advanced Aerospace and Composite Materials
- Aeronautical and Aerodynamic Research

Upon further specialised training and practical experience in operating aircraft, you can become a Licensed Aircraft Maintenance Engineer, certified by the Civil Aviation Authority of Singapore.



"I have always dreamed of becoming an aerospace engineer, and this diploma has certainly shown me how to turn this dream into a reality. I'm glad I chose NYP's Diploma in Aeronautical & Aerospace Technology. With modern facilities and a great learning environment, we learn first-hand the latest knowledge and skills needed by the industry."

### **Simon Soh Chi Heng**

Diploma in Aeronautical & Aerospace Technology  
Year 3

### **Uni, here I come!**

Your solid engineering foundation will pave the way for you to pursue further studies in many varied engineering disciplines in reputable local and overseas universities, including:

#### **Singapore**

- National University of Singapore
- Nanyang Technological University

#### **Europe**

- University of Sheffield
- Loughborough University

