

# 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:  
**C62**

# DIPLOMA IN **DIGITAL & PRECISION ENGINEERING**

A sleek touchscreen phone, an exciting game console, a supersonic jet, a racing car turbo diesel engine. What do they have in common? The mobile device and game components, aerospace systems, and racing engines were all created by the technologies used in Digital & Precision Engineering. Whether it's games design, aircraft engineering or racing technology, NYP's Diploma in Digital & Precision Engineering will give you the expertise to bring your creations to reality.

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

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

- Aspiring to be a scholar – the prestigious National Precision Engineering Scholarship funds your three-year polytechnic course on top of giving you monthly allowances
- Eager to be a highly sought-after professional with all-rounded engineering skills
- Keen to study in a conducive environment with state-of-the-art technologies and facilities
- Interested in contributing to Singapore's fast growing biomedical, aerospace and precision engineering industries

## **What will I learn?**

- Fundamentals of precision engineering, digital design and manufacturing
- Knowledge and skills in digital design and engineering applications, engineering processes and process control
- Valuable industry practices through your industrial attachment with a precision engineering company

"NYP's Digital & Precision Engineering course equipped me with theoretical knowledge and technical skills needed to excel in the Aerospace Manufacturing Industry and to be part of the growing Aerospace sector in Singapore. I am grateful to NYP and EDB for grooming me and preparing me well for my job as an Assistant Engineer with Singapore Aerospace Manufacturing. Given my strong foundation in precision engineering, built on a meticulous curriculum, I was able to find employment in a very short time after graduation."

### **Chong Lih Jiun**

Diploma in Digital & Precision Engineering  
Class of 2011

Assistant Engineer  
Singapore Aerospace Manufacturing

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

Upon graduation, you can look forward to exciting careers in:

- Aerospace Manufacturing
- Biomedical Manufacturing
- Automation and Equipment Building
- Mould & Tool Design

## **Be a Scholar!**

As a Digital & Precision Engineering student at NYP, you can apply for the prestigious National Precision Engineering Scholarship. The scholarship, awarded by the Economic Development Board and SPRING Singapore, opens up a whole new world of opportunities for you! It covers:

- Total course fees for your diploma course
- An S\$800 monthly allowance throughout your three-year course
- An opportunity for a fully-paid overseas attachment programme of up to six months in USA, UK, Germany, Switzerland, Austria, Holland or Japan

