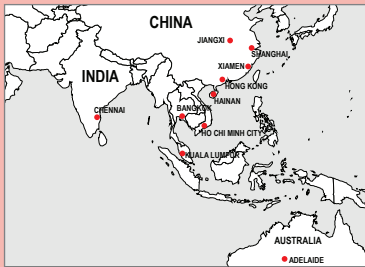


Connect @ Applied Science School (ASc)

Temasek Applied Science Diploma Courses

- Applied Food Science & Nutrition (FSN)
- Baking & Culinary Science (BCS) **New**
- Biomedical Science (BMS)
- Biotechnology (BIO)
- Chemical Engineering (ChE)
- Veterinary Technology (VeT) **New**
- Consumer Science & Technology (CST)

• Overseas Student Internship Attachments



Student: Candice Toh

Diploma: Chemical Engineering

Location: Hainan, China

Mission: Conduct laboratory testing of Traditional Chinese Medicine

Wow!: I learnt to work independently!



Student: Lim Say Hwee & Wong Mei Yen

Diploma: Chemical Engineering

Location: Hong Kong, China

Mission: Carry out R&D in personal care products (shampoo & conditioners)

Wow!: A great learning experience!



Student: Sharlene Anne Pereira & Juncherdvanich Chanya

Diploma: Food Science & Nutrition

Location: Bangkok, Thailand

Mission: Learn the latest in bread-making technology

Wow!: I'm one step closer to opening my dream bakery!



ADD TO YOUR PORTOFOLIO AN APPLIED SCIENCE

OVERSEAS INTERNSHIP EXPERIENCE



Student: Dorothy Wong

Diploma: Biotechnology

Location: Sichuan Province, China

Mission: Collect and study data on eating patterns, gestation periods, food intake of wild black bears in China

Strategy: Set up monitor trip cameras and radio telemetry device. Examine bear faeces for bee parts (see pictures) to learn about their eating habits

All-Time High: Enjoying beautiful scenery

Advice: If you have the passion, you can make it happen!

Student: Huin Xin Yee

Diploma: Food Science & Nutrition

Location: Shanghai, China

Mission: Investigate development of frozen convenience food

Wow!: This is a great way to jump start a career in food technology!



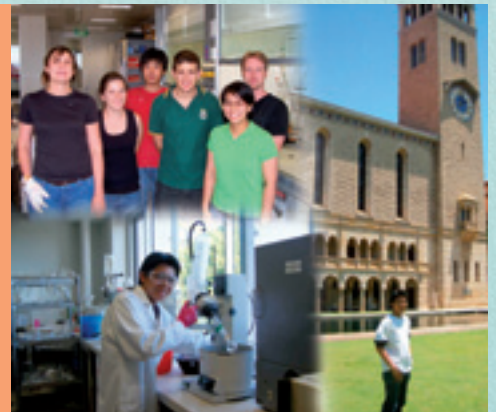
Students: Melvin Sin & Deborah Khoo

Diploma: Biomedical Science

Location: Adelaide, Australia

Mission: Develop new drug entities to treat Parkinson's disease and immunologic disorders

Wow!: I love the excitement of creating new drugs!





Chemical Engineering students came in **First Runners-Up** in the environmental competition, **SPH Foundation Solar Innovations 2006**. Their winning entry focused on an innovative environment-friendly waste water treatment.



At a recent patent commercialisation competition, **Synergy 2006**, Chemical Engineering students emerged **Champions** with their business plan involving water purification. The competition was organised by NTU and Intellectual Property Exchange Pte. Ltd. The 2nd and 3rd prizes were clinched by NUS and NTU respectively.



Chemical Engineering students clinched the **3rd Prize of \$2000** at the **Ricoh "Waste To Wow" Recycling Competition** for their creative PORTO PICK – a portable table tennis and golf ball picker (above).



Not to be outdone, their schoolmates bagged a **Consolation Prize** for their novel pet food dispenser (above).



Biomedical Science's Vinodhini Jayaram clinched one of the **top 3** prizes in an **inter-school essay competition** organised by the Singapore Society of Biochemistry and Molecular Biology. Her essay was on "Bird Flu - Past, Present and Future".

**Connect with industry experts
and set the standard for your
peers to follow!**

THE APPLIED SCIENCE EXPERIENCE

APPLIED FOOD SCIENCE & NUTRITION



Designing ice cream formulations to meet customer requirements



Designing a sensory evaluation session for a newly developed soft drink



Three heads are better than one when it comes to developing popsicles

BAKING & CULINARY SCIENCE



Analysing the texture of bread



"Like my arrangement of the cinnamon rolls?"

BIOTECHNOLOGY

Students perform gavage – safe method of introducing accurate dosage for research



Sub-culturing of tissue culture plantlets at the laminar flowhood

CHEMICAL ENGINEERING



Conducting chemical analysis using state-of-the-art equipment



Creating novel properties using nanotechnology

BIOMEDICAL SCIENCE



Ensuring that tablets dissolve at the right speed and at the right location in the body

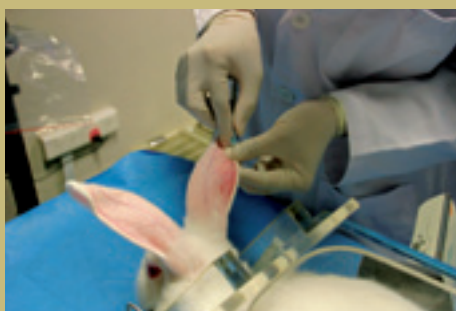


Modern vampire?! Learning to draw blood from an artificial arm.

VETERINARY TECHNOLOGY



Identification of a parasite taken from the skin sample of a dog



Students are trained in techniques for collection of blood needed for scientific studies

CAREERS WITH ASc DIPLOMAS

With the relevant diploma, you may embark on a rewarding career in the following industries:

| (FSN) | (BCS) | (BIO) | (BMS) | (ChE) | (VeT) |
|--|---|--|--|---|--|
| Nutrition / Healthcare <ul style="list-style-type: none"> Health Promotion Executive Dietetic Technologist Nutrition Educator Sales & Marketing Executive | Food & Beverage <ul style="list-style-type: none"> Baking Technologist Culinary Technologist Food Safety Officer Sales & Marketing Executive | Biomedical Research <ul style="list-style-type: none"> Research Technologist Laboratory Technologist Scientific Officer Laboratory Biologist Sales & Marketing Executive | Healthcare / Pharmaceutical <ul style="list-style-type: none"> Research Technologist QA / QC Technologist Pharmacy Technician Sales & Marketing Executive Entrepreneur | Chemical Processes <ul style="list-style-type: none"> Process Technician/ Assistant Engineer Laboratory Officer Safety Officer Technical Sales Executive | Biomedical Research <ul style="list-style-type: none"> Animal Technologist Research Technologist Technical Support Officer Sales & Marketing Executive |
| Food Technology <ul style="list-style-type: none"> Food Technologist (specialising in food product development) QC & QA Executive Sales & Marketing Executive | Food Consultancy <ul style="list-style-type: none"> Research Chef R&D Executive | Agrotechnology (eg plant and animal centres) <ul style="list-style-type: none"> Technical Support Officer Laboratory Technologist | Healthcare / Biomedical <ul style="list-style-type: none"> Clinical Laboratory Technologist Research Technologist Sales & Marketing Executive | Pharmaceutical Manufacturing <ul style="list-style-type: none"> Process Technician / Assistant Engineer QA/QC Technician | Veterinary Services (eg AVA, zoos, marine parks) <ul style="list-style-type: none"> Veterinary Technologist Animal Welfare Educator Animal Health Inspection Assistant Sales & Marketing Executive |
| Food Service Management <ul style="list-style-type: none"> Supervisor in food service operations | Refer to our website for information on further studies and accreditation! | | | Laboratory / Research Institutes <ul style="list-style-type: none"> Laboratory Technician / Officer Research Assistant | Pet Care <ul style="list-style-type: none"> Pet Product Retailer Pet Shop Support Officer Sales & Marketing Executive |

CALLING ALL SEC 3 & 4 STUDENTS!

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Programmes we have organised include:

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- Course & Career Talks
- Campus & Facility Tours
- Advanced Elective Module (Water Technology)

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