i-Intern & i-RAP
for Engineering & Computing Students

Presented by
Ong Kai Yi
Enhance your education through International Programmes . . .

- SEP: Student Exchange Programmes
- i-INTERN: International Internships
- i-RAP: International Attachment Programmes
- i-SP: International Summer Programmes
- SSUE: Sino-Singapore Undergraduate Exchange Programme
- STEER: Study Trips For Engagement & Enrichment
- Y-VISP: Yale Visiting International Student Programme
- FDDP: NUS – French Double Degree Programmes
- TF LEaRN: Temasek Foundation Leadership Enrichment & Regional Networking Programme @ NUS

Visit IRO website to find out more . . .

nus.edu.sg/iro
What Are Short-term Programmes?

<table>
<thead>
<tr>
<th>Type of Opportunities</th>
<th>Duration</th>
<th>Academic Courses?</th>
<th>Work / Research Experience?</th>
<th>Academic Credit?*</th>
</tr>
</thead>
<tbody>
<tr>
<td>i-SP</td>
<td>2 to 8 weeks</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Summer: May to Aug Winter: Dec to Feb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i-Intern</td>
<td>2 to 6 months</td>
<td></td>
<td>✓</td>
<td>Maybe</td>
</tr>
<tr>
<td>i-RAP</td>
<td>2 to 6 months</td>
<td>Maybe</td>
<td>✓</td>
<td>Maybe</td>
</tr>
<tr>
<td>Other Programmes</td>
<td>1 to 2 weeks</td>
<td>Student Conferences / Forums / Workshops</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

*Academic Credit is subjected to faculty approval, and it is each student’s responsibility to apply for module mapping before embarking on your programme.
How many NUS participants?

Figures for AY 2015/16, correct as of 1 September 2016

1,400+ i-SP

140+ i-Intern

14+ i-RAP

130 Other Prgs
What should I consider?

When?
Where?
What?
Price?
## Where can I go?

### i-Intern
- China
- Hong Kong
- Japan
- Taiwan
- Indonesia
- Malaysia
- Thailand
- India
- Sri Lanka
- Turkey
- Oman
- South Africa

### i-RAP
- China
- Hong Kong
- Japan
- South Korea
- Taiwan
- Vietnam
- Saudi Arabia

- Canada
- USA
- Chile
- Colombia
- Mexico
- France
- Hungary
- Italy
- Netherlands
- Spain
- Sweden
- Turkey
- USA
- Canada
- Austria
- France
- Switzerland
- UK
Which universities/companies?
Which universities/companies?

東京大学
The University of Tokyo

香港中文大学
The Chinese University of Hong Kong

ACS
Chemistry for Life®

UC DAVIS
University of California

Northwestern University

International Exchange Day 2016
Is financial assistance available?

**NUS International Internship Award**
- Guaranteed if eligibility conditions are met

**NUS Awards for Study Abroad (NASA)**
- NASA Enhancement **Bursary** – by financial need
- NASA Enhancement **Scholarship** – by academic merit

**Programme-specific Scholarships**

**Overseas Student Programme (OSP) Loan**

**PSEA Funds** (managed by NUS Office of Financial Aid)
How can I find out more?

**Check your NUS email account**
- New programmes and application deadlines
- Information on IRO events
- Invites to talks by programme partners

**Check our website and Facebook page**
- www.nus.edu.sg/iro
- fb.com/nusiro.sg

**Attend the Global Experience Fair in January 2017**
- 17 January – Internships Fair
- 18 January – Summer Programmes Fair
NUSRI-NUS China Internship Program

January-June 2017

(IRO/UGR/FOE)

- Introduction of the Industrial Attachment Program
- Introduction of Suzhou and Suzhou Industrial Park
- Video Introduction of NUSRI
Introduction of the Industrial Attachment Program
NUS-NUSRI China Internship Program

Objective: To maximise the cross cultural exposure of NUS students.

First large scale industrial attachment program overseas. An opportunity to perk up your CV with overseas working experience, especially in Asia’s largest economy.

- Target only 30 students MAX
- 24 weeks Industrial Attachment from Jan-Jun 2017
- Part of FOE IA program, extended to Suzhou
- Same Module Credit (12) as a Singapore based IA
- Need to attend 12 weekends’ of talks on Intellectual Properties, China Business Environment, Entrepreneurship Environment, etc.
- Certificate of participation
NUS-NUSRI China Internship Program

Part A.

Modular Credits: 12

1. China Initiatives Steering Committee (CISC) Funding: SGD 1,000
   (Available to Singaporeans and PRs only)
2. FOE Funding: SGD 1,000
   (Available to Singaporeans and PRs only)
3. Young Talent Programme (YTP) Funding: SGD 2,400
   (Available to Singaporeans and PRs only)
4. University Overseas Initiative Funding: SGD 1,200
   (Available to international students only)
5. University Overseas Initiative Funding on accommodation: SGD 1,500
   (Available to all students. To pay/subsidize NUSRI provided accommodation)

Singaporeans/PR: (1)+(2)+(3)+(5); International Students: (4)+(5).

Part B.

On top of Rmb2,500 (minimum) per month of internship allowance from company.
NUS-NUSRI China Internship Program

Part C.

Courses:

1. Chinese culture and china business and entrepreneurship environment class – 4 MC (T.B.C)
2. NUSRI Winter Program – 4 MC (Additional Fees applies)
3. Engineering Professionalism Course – 3 MC
NUS-NUSRI China Internship Program

Batch #1 2016

Internship at Suzhou based MNC and larger China tech companies

Student Resources from Asia Top University
Internship Students and SEP Exchange Students at Suzhou Tongli Historical Old Town.

- 27 Aug 2016 -
Internship opportunities for Mechanical Engineering, Civil Engineering, BioMedical Engineering, Electrical Engineering students, etc

Sample companies:
- CPG Environment
- CanadianSolar
- Asus
- NCS Suzhou
- Patsnap
- MXR, Kmerit, Tat Seng, etc..
- ... Over 25 good quality Suzhou based Biomedical, Engineering, Manufacturing, Environment companies.
Canadian Solar Inc.

Industrial category: Environmental & Mechanical engineering

Founded in 2001 in Canada, Canadian Solar (NASDAQ: CSQL) operates as a global energy provider with successful business subsidiaries in 20 countries on 6 continents. Besides serving as a leading manufacturer of solar PV modules and provider of solar energy solutions, Canadian Solar has a geographically diversified pipeline of utility-scale power projects. With the company’s recent acquisition of Recurrent Energy, Canadian Solar’s total project pipeline is now 13.5 GW, including an increase of the late-stage project pipeline to over 2 GW. With state-of-the-art manufacturing facilities in Canada, China and Vietnam, Canadian Solar employs over 8,900 workers worldwide. This translates into more than 15 GW of panel shipments, or over 70 million PV modules, in the past 15 years. Together with Recurrent Energy, Canadian Solar is ushering the way into a new era of clean, competitive, mainstream power.

**Position (Required number):**
Up to 2 Engineer of BPM
Tat Seng Packaging (Suzhou) Co., Ltd  
Industrial category: Manufacturing

Tat Seng packaging products (Suzhou) co., LTD., specialized in production of corrugated cardboard, carton, wholly owned by Singapore's famous packaging group, completed and put into operation in June 1997. Company invested $19.64 million, total assets of RMB 327 million yuan, annual sales of nearly RMB 400 million yuan. Tat Seng packaging is a national "high-tech enterprise", factory has independent R&D center, and strong R&D team, has a national patent ten three packaging. The Company is certified with ISO 9001 and 14001 and equip with more than 20 set of comprehensive testing equipment for paper, board and carton box. Currently, we are serving more than 1000 customers in the Yangtze river delta region which include global MNCs and well-known companies.

Position (Required number):
1 Engineer
Kmerit (Suzhou) Information Science & Technology Co., Ltd

Industrial category: Financial IT

Kmerit provide professional IT services with international standards for China’s treasury and capital market institutional clients.

One advantage is truly globalized in every service line, including marketing, operation, software customization, implementation and service outsourcing. Experts of Kmerit come from leading financial technologies and informational vendors both from local and global. With various competencies or specialized areas, the teams have been actively serving industry clients over ten to fifteen years.

The capability of delivering localized services with global vision and standards is the key to our success over the past few years. Today we serve more than 60 institutional clients, ranging from SOE banks (“Big Four”), Commercial Banks, Policy banks, foreign banks, Exchanges, fund management firms, investments firms in mainland China, Macau and Hong Kong.

Position (Required number):
1 Software engineer
2 Maintenance engineer
China-Singapore SIP Development Co., Ltd
Industrial category: Environmental & Mechanical Engineering

China-Singapore Suzhou Industrial Park Development Co., Ltd. (CSSD) was jointly developed by the governments of China and Singapore in August 1994. With Sino-Singapore cooperation, CSSD has made great contribution to the development of Suzhou Industrial Park (SIP).
Taking the ‘building of China Dream and construction of new urban’ as its own responsibility, CSSD has set up the developing pattern of ‘one body with two wings’, namely, the main body of new urbanization construction, and the two wings of real estate development and municipal public utilities, so as to realize the linkage of various business sectors and the aggregation of resources. Currently, CSSD owns more than 40 subsidiaries, with about 2600 employees in the group and RMB20 billion of gross assets.

Position(Required number):
1 Ground infrastructure project management
PatSnap Technology Pte. Ltd

Industrial category: IT of Intellectual Property

PatSnap founded by Jeffrey Tiong, who graduated from NUS, and was awarded of SIP Talent Grant in 2014. The company was established in Singapore in 2007, and started to be incubated by NUSRI in 2011. PatSnap have brought together the biggest IP dataset in the world – more than 113 million patents - and to this PatSnap have added licensing and litigation data, economic data, patent valuation, image and chemical formula search, trademark recognition and more. And then we make this data accessible and relevant to all - whether expert in IP, or completely new to the world of intellectual property.

There are over 300 employees in Suzhou, London, USA and Singapore. Its customers include universities like NUS, Beijing University, MIT, NTU, and industry leaders such as China Mobile, Haier, DSO etc. In 2014 PatSnap has obtained Series A round investment of SGD4.4million from Vertex in Series A funding and raised USD11million in Series B funding in end 2015.

Position(Required number):
1 Junior Developer
Aire-Plus Technology (SIP) Co., Ltd

Industrial category: Manufacturing

Aire-Plus Systems was founded in the year 2000 in Singapore. Its primary business focus lies in the air cleaning industry, mainly supplying Fan Filter Unit (FFU) as an Original Equipment Manufacturer (OEM) for well-known brands. A high tech company that strives to break new barriers in the R&D of air filtration technology. While its holding company is situated in Singapore, the manufacturing and R&D plant is located in Suzhou (China). Aire-Plus have a total of 4 manufacturing plants located across Asia, which includes Kuala Lumpur (Malaysia), Suzhou (China), Dong Guan (China) and Taiwan. In addition, a R&D centre is located in Suzhou (China) as well.

Aire-Plus have sales office located across 5 different countries with multiple offices in each location. Over a decade of experience. Aire-Plus’ expansion allows them to become one of the top manufacturer of Clean room products, accumulating a vast amount of experience with over a million FFU produced.

**Position (Required number):**

1 Product R&D and application Engineer
CPG Corporation Pte. Ltd. (CPG Corp)
Industrial category: Environmental Engineering

Industrial waste water treatment & Ultra-pure water systems for industrial applications. Born out of the corporatization of the Singapore Public Works Department in 1999, CPG is a Singapore company providing a wide range of comprehensive engineering services. CPG EE specializes in turn-key Environmental Services (such as wastewater treatment, water softening, etc) for the industrial sector. Over the years, we have served many international clients within China & also overseas (USA, Germany, UK, Denmark, South Korea, etc.)

Honors
CPG Corporation has received numerous Singapore and international awards for its works. Please kindly refer to our corporate website for more information.

Position (Required number):
1 Assistant project engineer (1)
ASUSTeK Computer Inc. （ASUS）
Industrial category: IT Product (R&D)

ASUS has long been at the forefront of this growth and while the company started life as a humble mother board manufacturer with just a handful of employees, it is now the leading technology company in Taiwan with over 12,500 employees worldwide. ASUS makes products in almost every area of Information Technology too, including PC components, peripherals, notebooks, tablets, servers and smartphones. Innovation is key to the success of ASUS. ASUS products won 4,256 international awards and accolades in 2013 – that’s over 11 a day, every day. ASUS has consistently achieved significant year-on-year growth in terms of consumer notebook units shipped too, and closed 2011 on a high with revenues hitting US$11.9 billion.

Position(Required number):
1 Human resources
2 Project testing
1 Maintenance
2 Computer programming
Sinnotech (Suzhou) Co., Ltd
Industrial category: Environmental & Mechanical Engineering

Relying on 6 years’ engineering design background and with the concept of ‘Quality is our lifeline’, Sinnotech China has grown to a modern company that provides services from **engineering design, mold making, injection molding to assembly**.

The branch of Sinnotech China, whose name is Seakou is the representative of KISSsoft which is the top 3 transmission system design software in the world. Our capability is from gear design, complete gear boxes to metal gear plastic replacement, etc. From 2006 till today, our company has successfully developed many projects which included the gears which the accuracy is between ISO 6 to 13 grades and also the complete gear boxes. Our new design not only helped our customers to reduce their cost but also increase the quality to achieve and even exceed the same product made in Europe. One of our products won the RED DOT award in 2011.

**Position (Required number):**
1 Machinery engineer
1 Chemistry engineer
The World is your Oyster...

... And you can start with Suzhou, China

NUSRI info site: www.nusri.cn
NUS IRO: www.nus.edu.sg/IRO
Engineering Faculty: lookout for emails
Introduction on Suzhou and Suzhou Industrial Park (SIP)
NUSRI Video
Sign-up:

- Visit NUS IRO website

- Take note of NUS Engineering Faculty IA program announcement
Thank You
Student Sharing
Intro

- Wei Xing
- Biomedical Engineering
- Thales Naval Nederland
Expectations

Lots of coding
Eating lots of bread
Drinking lots of beer
- Field trip to radar workshop
- The Flying Dutch
- House weekend to Antwerp, Belgium
Take-aways

- MATLAB proficiency
- Culturally different working team
- International Friends
- Bicycle Repairing skill
- Fats
Challenges

- MATLAB proficiency
- International peers and superiors
- Lousy bicycle
When, Where, What

Internship period
• Seven weeks (20 June 2016 to 5 Aug 2016)
• Monday to Friday (8:30am to 5:15pm)

Workplace
• SEI Itami Works, Itami, Hyogo prefecture, Japan

Job scope
• Materials analysis using various analytical techniques, SEM, TEM, XRD, ICP-OES, AES, FIB etc.
• Weekly report & Final presentation
• Cultural exchange (ESL teacher)
Through this internship, I learnt...

- To be more independent
- To manage time and set my priorities
- To open up and communicate with people with different cultural backgrounds
- To appreciate my own country and others’
This internship has changed.....

• My perspective on Japan
  (Japan and Japanese people are conservative? No, they are actually quite open to foreign ideas and cultures)

• My perspective on working in Japan
  (Stiff and stressful? Not much! They work hard, play harder!)

• My perspective on the importance of materials science and engineering
  (More aware of what MSE can do to the industry)

• My perspective on work ethics
  (Safety is crucial, with safety comes other good ethics)

• How I think about my future
  (Working first before masters might not be bad after all)
Memories
Free and valuable experience. Just go, you will be amazed.
I-Intern
Hong Kong
KERRY Logistics
Things done and learnt
Things done and learnt
Things done and learnt
To go or not to go

That is the question... ...
Thank you for your attention.

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