**NOTICES ON IO**

**IMPORTANT:**

1. Depending on various Schools’ requirement, students may or may not be allowed to do their attachment in their final semester.

   Students who choose to do IO in the final special sessions will not be able to attend the convocation in that year following the completion of their IO. These students will still graduate and be conferred their degree after successful completion of their IO. They can join the following year’s convocation by informing OAS. The IO results will normally be available in September.

2. The placements secured by CAO may not be sufficient for everyone. Students are encouraged to source for their own IO placements.

3. Each student is only allowed to do one attachment option from IO/IA/EIA/IRA/GEM Discoverer Work & Study/GEM Discoverer Research. The work component in GEM Discoverer Work & Study is towards fulfilling the requirement for attachment for the respective courses.

4. Students on IO are not allowed to read courses during attachment.

5. Students on attachment are not allowed to shift their attachment period, take leave or end their attachment earlier to participate in the Summer Programmes, Work & Travel, other internships, read courses etc.

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| Notice 5 | Overseas Placement for EEE & SCE DT Communications Asia Pacific Limited – Hong Kong |
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Please read ‘Information on IO’ before you proceed with the IO registration.

<table>
<thead>
<tr>
<th>Round</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round 1</td>
<td>24 January 2014 (Friday) 9.00am to 30 January 2014 (Thursday) 5.00pm</td>
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<tr>
<td>Round 2</td>
<td>21 February 2014 (Friday) 9.00am to 25 February 2014 (Tuesday) 5.00pm</td>
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<tr>
<td>Round 3</td>
<td>21 March 2014 (Friday) 9.00am to 25 March 2014 (Tuesday) 5.00pm</td>
</tr>
<tr>
<td>Round 4</td>
<td>18 April 2014 (Friday) 9.00am to 21 April 2014 (Monday) 5.00pm</td>
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</tbody>
</table>

1. Interview schedule for interviewing organisations for either local or overseas IO placement will be updated by the organisations concerned directly. An email will be sent to your NTU email account directly as and when the organisation enters the interview schedule in the system. Please check your email regularly for updates. Alternatively, you can also logon to StudentLink to check the status of your application.

2. If you are selected by the organisation, you have to accept or decline the offer by 30 April 2014 or an earlier date requested by the organisation. Please note that you can only accept one offer.

3. Under the policy of CoE, students who rescind accepted offer will be dropped from the current IO/IA. You may participate in the next attachment programme.

4. The full results of IO allocation & online IO package will be available from 29 April 2014.

23 January 2014
Notice 2

**IO Talk by Organisations**

The following organisations are giving Industrial Orientation Talk. Students who are going for Industrial Orientation in **AY 2013/2014** are welcome to attend.

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Organisation</th>
<th>Targeted Schools</th>
<th>Venue</th>
<th>Attachment Programme</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22 Aug 2013</td>
<td>DSO National Laboratories</td>
<td>- EEE</td>
<td>LT6</td>
<td>IA/IO</td>
<td>12.00-13.00</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>- MAE</td>
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<td><em>To put up under sourcing for your own placement</em></td>
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<td>- SCE</td>
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<td>- SPMS</td>
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<td>*For Singaporean Only</td>
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<tr>
<td>2</td>
<td>2 Sep 2013</td>
<td>Micron Semiconductor Asia Pte Ltd</td>
<td>- CEE</td>
<td>LT5</td>
<td>IA/IO</td>
<td>12.00-13.00</td>
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<td>- EEE</td>
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<tr>
<td>3</td>
<td>3 Sep 2013</td>
<td>Citibank N.A., Singapore</td>
<td>- EEE</td>
<td>LT 4</td>
<td>IA/IO</td>
<td>12.30-13.30</td>
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<td>- SCE</td>
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<tr>
<td>4</td>
<td>5 Sept 2013</td>
<td>Qualcomm Global Trading Pte Ltd</td>
<td>- EEE</td>
<td>LT 6</td>
<td>IA/IO</td>
<td>12.00-13.00</td>
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<td>- SCE</td>
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</table>
### OVERSEAS PLACEMENTS – SUMMARY

<table>
<thead>
<tr>
<th>Notice</th>
<th>Organisation</th>
<th>School</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>DSO National Laboratories</td>
<td>✓</td>
<td>France</td>
</tr>
<tr>
<td>5</td>
<td>DT Communications Asia Pacific Limited</td>
<td>✓</td>
<td>Hong Kong</td>
</tr>
<tr>
<td>6</td>
<td>Institut Superieur d'Electronique de Paris (I.S.E.P)</td>
<td>✓</td>
<td>France</td>
</tr>
<tr>
<td>7</td>
<td>Northeastern University</td>
<td>✓</td>
<td>USA</td>
</tr>
<tr>
<td>8</td>
<td>Shanghai Unity Management Services Co., Ltd</td>
<td>✓</td>
<td>China</td>
</tr>
<tr>
<td>9</td>
<td>Toyota Boshoku Corporation</td>
<td>✓</td>
<td>Japan</td>
</tr>
</tbody>
</table>

23 January 2014

[Back to Content]
Target School : EEE

Training Location : Supelec, Gif-sur-Yvette, France

Business Activities : Defence industry; applied research & development work.

- Accommodation : Not provided.
- Insurance : Medical/Health Insurance only
- Monthly allowance : Euro$1200.

Programme Code : 6414

Programme Title : Compact Flight recorder for a Lightweight SAR Carried by Remote Control Platform

Programme Scope : SONDRA is involved in the study & development of a Compact lightweight SAR for lightweight remote control platform. SAR (Synthetic Aperture Radar) is a unique technique for imaging the ground without suffering from rain or cloud masking effects, unlike optical systems. To form the image, the motion of the remote control platform must controlled & monitored. The recording of flight parameters (position, yaw, pitch & roll angles, velocity & acceleration) is necessary.

Today COTS components, such as six degree of freedom inertial sensor (example of Analog Device 16384 used in Iphone-4) are available, low cost & low profile and very light. For positioning, commercial GPS devices (example of MTK3301) are also available at low cost, low profile.

The internship will be focused on the recording of flight parameter:

1. First part of this work will cover a survey of the commercial available technologies for positioning & inertial measurements.
2. Second part will be to study & propose architecture data recorder, e.g. based on a microcontroller (MCU); MCU will be purchased by the laboratory on time.
3. Third part consists in assembling the system, programming the MCU.
4. Fourth & last part covers the validation of the recorder, for a moving system carried by a car.

Depending on the know-how and technical background of the applicant, the exact tasks will be assigned.

Pre-requisites : ADC, DAC, Signal Processing
Programme Code : 6415
Programme Title : Software Defined Radio for Radar Applications
Programme Scope : Supelec has developed a software defined radio (SDR) transceiver primarily for telecommunication experiments.

SDR technology opens promising perspectives in the radar field: new waveforms can be generated, new types of algorithms can be implemented by reconfiguring the hardware "on the fly" through the software interface.

This system needs some rework to be used in the radar field, mainly because the USB interface giving unknown latencies during the transmit-to-receive mode switch. In active radar systems, once the desired waveform has been transmitted, it is required to switch to receive mode in a deterministic & known delay to be able to acquire & process received signals scattered by targets.

The internship will be focused on updating the system operating modes to add fast transmit-to-receive modes - by rewriting several blocks in the host software, firmware & FPGA processing blocks.

1. First part of this work will be focused on understanding the SDR transceiver & draft the required changes to operate as a Software Defined Radar device;
2. Second part will be around implementing the changes in the different impacted layers.
3. Some basic experiments will be conducted to benchmark the system & evaluated possible improvements.

Depending on the know-how & technical background of the applicant, the exact tasks will be assigned.

Pre-requisites : ADC, DAC, RADAR, FPGA, Signal Processing.

Application is only open during the IA registration period through StudentLink

- Student going on this programme will have to bear the costs of all expenses including visa, accommodation, insurance (personal accident, travel) etc. if they are not covered by the company.
- Students with outstanding performance for group work or project based module(s), evidence of willingness to work with others as a team, demonstrate outstanding performance during attachment may be considered for John Cheung Overseas Attachment Award (applicable for Singapore Citizen only).

23 January 2014
Notice 5

OVERSEAS PLACEMENT FOR EEE & SCE
DT Communications Asia Pacific Limited - Hong Kong
http://www.dt-asia.com

Targeted School : EEE & SCE
Training Location : Hong Kong
Business Activities : Public Relations.
Offer Package : - Airfare : Not provided.
               - Accommodation : Not provided.
               - Insurance : Not provided.
               - Monthly allowance : HK$ 6200.

Student going on this programme will have to bear the costs of all expenses including airfare, visa, accommodation, insurance (medical, personal accident, travel) etc.

**EEE**
Programme Code : 6408
Programme Title : Digital Media Guru
Programme Scope : Research, analyze & implement digital media campaigns. Assist DT teammates in strategic planning of online programs & the development of new e-marketing concepts.
Pre-requisites : Experience in different digital platforms. Knowledge of digital analytics tools is an advantage. Familiar to work with programmers in PHP, MySQL & API of different digital networking platforms. Experience in marketing, public relations concept & executions.

**SCE**
Programme Code : 6409
Programme Title : Digital Media Guru
Programme Scope : Research, analyze & implement digital media campaigns. Assist DT teammates in strategic planning of online programs & the development of new e-marketing concepts.
Pre-requisites : Experience in different digital platforms. Knowledge of digital analytics tools is an advantage. Familiar to work with programmers in PHP, MySQL & API of different digital networking platforms. Experience in marketing, public relations concept & executions.

Application is only open during the IO registration period through StudentLink

- Student going on this programme will have to bear the costs of all expenses including airfare, visa, accommodation, insurance (medical, personal accident, travel) etc. if they are not covered by the company.


- Students with outstanding performance for group work or project based module(s), evidence of willingness to work with others as a team, demonstrate outstanding performance during attachment may be considered for John Cheung Overseas Attachment Award (applicable for Singapore Citizen only).

23 January 2014
Notice 6

OVERSEAS PLACEMENT FOR EEE & SCE
Institut Superieur d’Electronique de Paris (I.S.E.P) – France
http://www.isep.fr

Targeted School : EEE & SCE
Training Location : France
Business Activities : Education & Research (Nano and microelectronics, signal and image processing, computer sciences and telecommunication)
Offer Package :
- Airfare : Not provided.
- Accommodation : Not provided.
- Insurance : Not provided.
- Monthly allowance : Not provided.

Student going on this programme will have to bear the costs of all expenses including airfare, visa, accommodation, insurance (medical, personal accident, travel) etc.

EEE
Programme Code : 6410
Programme Title : -
Programme Scope : Please identify the research team and then choose a topic that you are interested in at Institut Superieur d’Electronique de Paris at the following URL: http://en.isep.fr/academic-research/minarc. Please indicate the research theme/topic in [More About My Application] in the resume module located in the IO module via StudentLink.
[Note : There is no allowance provided though the 10-week IO]
Pre-requisites : -

Programme Code : 6412
Programme Title : -
Programme Scope : Please identify the research team and then choose a topic that you are interested in at Institut Superieur d’Electronique de Paris at the following URL: http://en.isep.fr/academic-research/site. Please indicate the research theme/topic in [More About My Application] in the resume module located in the IO module via StudentLink.
[Note : There is no allowance provided though the 10-week IO]
Pre-requisites : -

SCE
Programme Code : 6411
Programme Title : -
Programme Scope : Please identify the research team and then choose a topic that you are interested in at Institut Superieur d’Electronique de Paris at the following URL: http://en.isep.fr/academic-research/rdi. Please indicate the research theme/topic in [More About My Application] in the resume module located in the IO module via StudentLink.
[Note : There is no allowance provided though the 10-week IO]
Pre-requisites : -
Application is only open during the IO registration period through StudentLink

- Student going on this programme will have to bear the costs of all expenses including airfare, visa, accommodation, insurance (medical, personal accident, travel) etc.


- Students with outstanding performance for group work or project based module(s), evidence of willingness to work with others as a team, demonstrate outstanding performance during attachment may be considered for John Cheung Overseas Attachment Award (applicable for Singapore Citizen only).

23 January 2014
## OVERSEAS PLACEMENT FOR MSE

**Northeastern University - USA**

http://www.northeastern.edu/che/

### Targeted School
MSE

### Training Location
Boston, USA

### Business Activities
University - educational institution.

### Offer Package
- **Airfare**: Not provided.
- **Accommodation**: Not provided.
- **Insurance**: Not provided.
- **Monthly allowance**: Not provided.

Student going on this programme will have to bear the costs of all expenses including airfare, visa, accommodation, insurance (medical, personal accident, travel) etc.

<table>
<thead>
<tr>
<th>Programme Code</th>
<th>Programme Title</th>
<th>Programme Scope</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>6354</td>
<td>Using Nanotechnology to improve Medical Devices</td>
<td>Students will learn mammalian and bacteria cell culture in order to design better orthopedic tissue engineering materials. Students will also learn how to fabricate nanomaterials (or materials with one dimension less than 100 nm) for such orthopedic applications and how to characterise such materials for implantation.</td>
<td>-</td>
</tr>
<tr>
<td>6384</td>
<td>Engineering Surfaces to See the Universe</td>
<td>Student will learn surface analysis techniques of X-ray Photoelectron Spectroscopy and Atomic Force Microscopy to characterise surface composition and topography. Student will learn different surface preparation techniques in the ultra-high vacuum environment and adjust processing conditions to tune surface properties.</td>
<td>-</td>
</tr>
<tr>
<td>6389</td>
<td>Nanomaterials to address global environmental challenges</td>
<td>Students will learn nanomaterials synthesis that holds nanoscale pores inside and study how to integrate the surface of materials with organic moieties of desired functionalities. Students will evaluate the engineering applications of the resulting hybrid, e.g. in terms of the carbon capture performance, etc.</td>
<td>-</td>
</tr>
<tr>
<td>6391</td>
<td>Using Nanotechnology for Water Splitting Applications: Hydrogen Catalysts</td>
<td>Students will learn how to electrodeposite thin films and nanowires of Mo-alloys from nanotemplates. The deposit composition will be characterised by X-ray fluorescence and the ability to catalyse the hydrogen evolution reaction from water will tested.</td>
<td>-</td>
</tr>
</tbody>
</table>
Application is only open during the IO registration period through StudentLink

- Student going on this programme will have to bear the costs of all expenses including airfare, accommodation, insurance (medical, personal accident, travel) etc.


- Students with outstanding performance for group work or project based module(s), evidence of willingness to work with others as a team, demonstrate outstanding performance during attachment may be considered for John Cheung Overseas Attachment Award (applicable for Singapore Citizen only).
Notice 8

OVERSEAS PLACEMENT FOR CEE
Shanghai Unity Management Services Co., Ltd - China

Targeted School : CEE
Training Location : Shanghai or Suzhou
Business Activities : Project Management Consultant
Offer Package : - Airfare : Not provided.
- Accommodation : Not provided.
- Insurance (Personal Accident and Medical) : Not provided.

Student going on this programme will have to bear the costs of all expenses including airfare, visa, accommodation, insurance (medical, personal accident, travel) etc.

Programme Code : 6280
Programme Title : Building Projects in Shanghai or Suzhou
Programme Scope : Working with Chinese Manager and Engineers in the same Project team.
Attend Site Meetings and Site Inspections to understand Site Management matters.
Understudy with experienced Manager and Engineers to learn and involve in Project Management matters.

Pre-requisites : Reinforced Concrete Design
Foundation Design
Steel Design

Application is only open during the IO registration period through StudentLink

- Student going on this programme will have to bear the costs of all expenses including airfare, accommodation, insurance (medical, personal accident, travel) etc.


- Students with outstanding performance for group work or project based module(s), evidence of willingness to work with others as a team, demonstrate outstanding performance during attachment may be considered for John Cheung Overseas Attachment Award (applicable for Singapore Citizen only).
Notice 9

OVERSEAS PLACEMENT FOR MAE
Toyota Boshoku Corporation - Japan

Targeted School : MAE
Training Location : Japan
Business Activities : Development of automotive interior systems, and manufacture and sales of automotive interior products. Manufacture and sales of automotive filters and powertrain components, etc.

Offer Package
- Airfare : Not Provided.
- Accommodation : Provided.
- Insurance (Personal Accident and Medical) : Not Provided.
- Monthly allowance : 100,000 yen (25,000 yen per week).
- Others : Meals at company canteen and dormitory on week days (includes breakfast, lunch dinner).

Programme Code : 6101
Programme Title : Assistant Engineer
Programme Scope : Working in one of our R&D divisions or Research Laboratory. Detail work placement is yet to be determined, but we will give intern a specific theme that will match with their area of expertise.

Pre-requisites : Good level of written and spoken English (good communication skill), attention to details, inquisitive mind, good personality and sense of humour, interest towards Japanese culture.

Attachment Location : Kariya City or Toyota City.

Application is only open during the IO registration period through StudentLink

- Student going on this programme will have to bear the costs of all expenses including airfare, insurance (medical, personal accident, travel) etc.


- Students with outstanding performance for group work or project based module(s), evidence of willingness to work with others as a team, demonstrate outstanding performance during attachment may be considered for John Cheung Overseas Attachment Award (applicable for Singapore Citizen only).

23 January 2014