

PRESS RELEASE

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MORE RESEARCH SCHOLARS BOLSTER TALENT DEVELOPMENT EFFORTS IN CLEAN TECHNOLOGY

Research projects are aligned with industry needs and explore new areas to meet growing demand for clean technology innovation

1. The NRF (Environmental & Water Technologies) PhD Scholarships and NRF (Clean Energy) PhD Scholarships were presented by Dr Vivian Balakrishnan, Minister for the Environment and Water Resources, at a joint award ceremony held during Singapore International Water Week 2011.

2. Twenty-five outstanding students, with a strong passion for Environment & Water Technologies (EWT) and Clean Energy research, were awarded scholarships by the Environment and Water Industry Programme Office (EWI) and the Energy Innovation Programme Office (EIPO). These scholars will pursue their research at the top universities in Singapore, the United Kingdom and the United States.

3. This year, more scholars will be working with the industry and other research institutes for their research projects. Amongst them are Mr Sim Tze Siang and Mr Tang Muzhi. Mr Sim is working with DNV, one of the leading research companies in clean technology, for his offshore wind installations research. Mr Tang will work at the Solar Energy Research Institute of Singapore to develop high-efficiency solar photovoltaic cells.

4. For the EWT scholars, Ms Chen Xiu Ling will be working with Professor Lam Siew Hong from NUS to study the euryhaline teleostean fish's unique behaviour and biological reactions in different levels of water salinity to develop a more energy-efficient method for water purification. Ms Liao Yuan, who is currently studying at the Singapore Membrane Technology Centre (SMTC), will work with renowned membrane expert Professor Anthony Fan to develop an ultrathin micro-porous material coating for membranes to achieve better water quality in the desalination process for seawater.

5. Together, EWI and EIPO have set aside S\$55 million from the funds received from the National Research Foundation for the award of such scholarships and have given out more than 70 scholarships to-date.

6. Singapore aims to grow the cleantech industry to contribute S\$3.4 billion of value-added (VA) to our GDP and provide 18,000 jobs by 2015. The environment & water sector is expected to contribute S\$1.7 VA and provide 11,000 jobs, while the clean energy industry is expected to contribute S\$1.7 VA and employ some 7,000.

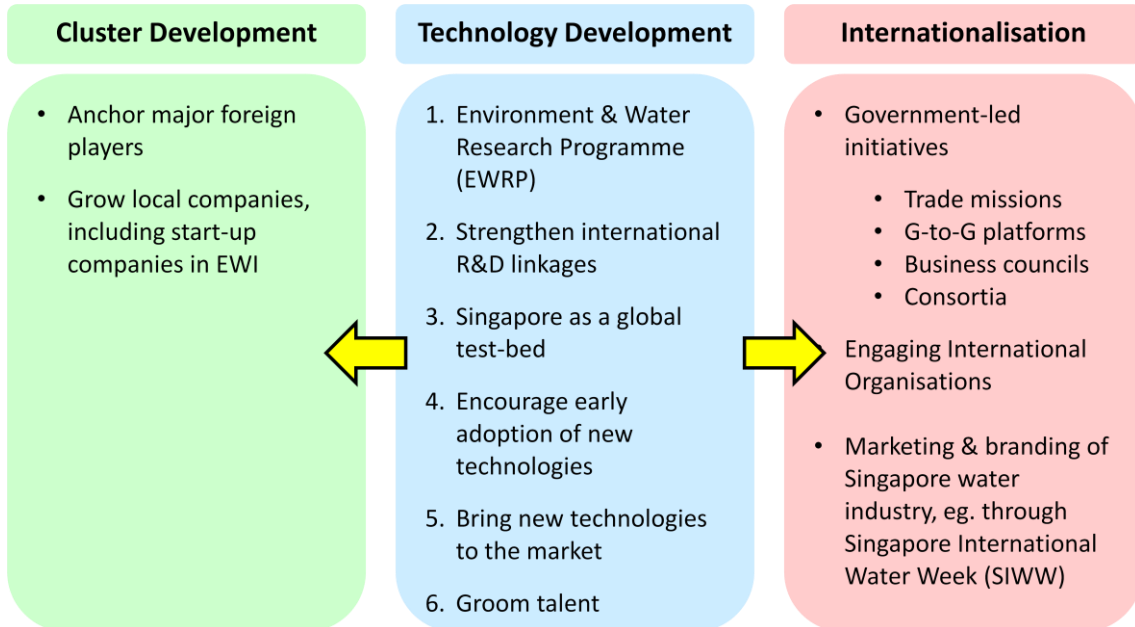
Issued by:

Environment & Water Industry Programme Office (EWI)

Energy Innovation Programme Office (EIPO)

About the Environment & Water Industry Programme Office (EWI)

The Environment & Water Industry Programme Office (EWI) was set up in May 2006 with \$330mil funding from National Research Foundation over 5 years to spearhead the development of the environment and water industry. EWI adopts a three-pronged strategy with technology development as a key pillar to grow the water industry.



Our vision is to grow value-added (VA) contribution from the water sector from \$0.5 billion (0.3% of GDP) in 2003 to \$1.7 billion (0.6% of GDP) by 2015. Jobs for this sector are expected to double to about 11,000 in 2015, with a large part of the growth in professional and skilled categories.

About the Energy Innovation Programme Office

To synergise efforts to grow the clean energy industry, the multi-agency Energy Innovation Programme Office (EIPO), formerly known as Clean Energy Programme Office (CEPO), was established in 2007, consisting of the Singapore Economic Development Board (EDB), the Energy Market Authority (EMA), Building and Construction Authority (BCA) and National Environment Agency (NEA). EIPO is responsible for planning and executing strategies to develop the energy sector in Singapore.

Since inception, EIPO has launched several key initiatives, including a S\$50 million Clean Energy Research Programme to support R&D efforts, a S\$25 million graduate scholarships programme to groom top-notch talent for the industry and a S\$20 million Solar Capability Scheme to test-bed innovative Clean Energy solutions.

EIPO's Co-Executive Directors are the Managing Director of EDB, Dr Beh Swan Gin, and the Chief Executive of EMA, Mr Chee Hong Tat.

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2011 NRF (Clean Water) PhD Scholarship Award Recipients

1. Cai Qinqing

Age: 22

University (PhD): NUS

Course of Study: Civil & Environmental Engineering

Qinqing was awarded the Dean's List for her undergraduate studies in NUS for 3 consecutive years and graduated with a First Class honors.

2. Chen Xiu Ling

Age: 23

University (PhD): NUS

Course of Study: Biological Sciences

Xiu Ling graduated with a Second Upper Class Honours from NUS and has 1.5 years of research experience in different projects during her undergraduate study in NUS.

3. Khiu Hui Leng

Age: 24

University (PhD): NUS

Course of Study: Chemistry

Hui Leng has some years of research experience as an attachment student in different institutes. She is a recipient of the NUS Science Award for the Science (Chemistry/Appl Chem) course.

4. Li Caixia

Age: 29

University (PhD): NUS

Course of Study: Biological Sciences

Caixia is a recipient of the Singapore MOE GLC SM3 scholarship for her undergraduate study in NUS. She won the Outstanding Teaching Assistant Award (Full Time) for 2 academic years .

5. Liao Yuan

Age: 24

University (PhD): NTU

Course of Study: Civil & Environmental Engineering

Liao Yuan holds an undergrad degree and a Master degree from Beijing University of Chemical Technology and graduated with a First Class Honours in Science and Engineering.

6. Liu Xiao

Age: 24

University (PhD): NUS

Course of Study: Civil & Environmental Engineering

Liu Xiao is a recipient of the MOE – NUS Undergraduate Scholarship and MOE Pre-University PRC Scholarship in Singapore. He is a three-time recipient of the Dean's List in NUS for his undergrad studies and graduated with a First Class Honours in Environmental Engineering.

7. Pan Jiahui

Age: 25
University (PhD): NUS
Course of Study: Chemistry

Jiahui is a two-time recipient of the "Best Awards" during her university years, on top of the yearly study grant by Singapore Organisation of Seamen (SOS), for outstanding academic achievements. She graduated with a First Class Honours in Mechanical Engineering. She has some work experience prior to her pursuit in her PhD studies.

8. Wang Yujue

Age: 22
University (PhD): NUS
Course of Study: Civil & Environmental Engineering

Yujue is a four-time recipient of the Dean's List in NUS for her undergrad studies and graduated with a First Class Honours in Environmental Engineering.

9. Yue Xiaodi

Age: 23
University (PhD): NUS
Course of Study: Civil & Environmental Engineering

Xiaodi is a recipient of the Dean's List in NUS for her undergrad studies and graduated with a Second Upper Class Honours in Environmental Engineering. She has some years of research experience during her undergraduate study in NUS and an active participant in co-curriculum activities.

ANNEX 2

2011 NRF (Clean Energy) PhD Scholarship Award Recipients

10. Chan Wei Ping

Age: 24
University (PhD): NTU
Course of Study: R&D in nano-thermal technology

Wei Ping was awarded the Dean's List for his undergraduate studies in NTU and is expected to graduate with a First Class honors.

11. Dong Zibo

Age: 24
University (PhD): NUS
Course of Study: R&D in solar PV systems

Zibo is expected to graduate with a First Class Honours from NUS and has participated in various projects and research internships.

12. Hu Chengcheng

Age: 26
University (PhD): NTU
Course of Study: R&D in bio-hydrogen production

Chengcheng holds an undergrad degree from Harbin Institute of Technology and a Master degree from Tongji University. She would be pursuing her PhD at NTU.

13. Irving Paul Girsang

Age: 21
University (PhD): NTU
Course of Study: R&D in wind turbines

Irving is a two-time recipient of the Dean's List in NTU for his undergrad studies, and is looking to graduate with a First Class Honours in Mechanical Engineering.

14. Ke Cangming

Age: 23
University (PhD): NUS
Course of Study: R&D in thin film solar cell

Cangming is a recipient of the Dean's List in NUS for her undergrad studies, and is looking to graduate with a First Class Honours in Engineering Science.

15. Lim Fang Jeng

Age: 23
University (PhD): NUS
Course of Study: R&D in organic PV Cells

Fang Jeng has great passion in Clean Energy research and is actively pursuing opportunities in this area.

16. Ong Chin Shen

Age: 26

University (PhD): University in UK or US
Course of Study: R&D in solar energy

Chin Shen has great passion in Clean Energy research and is actively pursuing opportunities in this area. He was graduated with a Double Degree in Physics and Materials Science & Engineering from NUS.

17. Ren Ye

Age: 25
University (PhD): NTU
Course of Study: R&D in wind energy

Ren Ye graduated with First Class Honours for his undergraduate and completed his Masters under NTU.

18. Sim Tze Siang

Age: 26
University (PhD): NTU
Course of Study: R&D in wind energy

Tze Siang has great passion in Clean Energy research and is actively pursuing opportunities in this area.

19. Tai Kong Fai

Age: 23
University (PhD): NTU
Course of Study: R&D in Copper Zinc Tin Sulphide (CZTS) Solar Cell

Kong Fai has great passion in Clean Energy research and is actively pursuing opportunities in this area.

20. Tang Muzhi

Age: 24
University (PhD): NUS
Course of Study: R&D in solar cell

Muzhi has great passion in Clean Energy research and is actively pursuing opportunities in this area.

21. Tay En Rong, Stephen

Age: 25
University (PhD): Imperial College London
Course of Study: R&D in CZTS solar cell

Stephen is expected to graduate with a First Class Honours. He has performed well in research during his undergrad days.

22. Tay Hui Huang

Age: 25
University (PhD): University of Cambridge
Course of Study: R&D in Energy Storage

Hui Huang completed her undergraduate studies in NUS. She would be pursuing her PhD at the University of Cambridge.

23. Xiao Jianfang

Age: 24

University (PhD): NTU

Course of Study: R&D in floating power generation station

Jianfang is passionate about Clean Energy. He is expected to graduate with a First Class Honours.

24. Zeng Xin

Age: 25

University (PhD): NTU

Course of Study: R&D in CIGS

Zeng Xin has great passion in Clean Energy research and is actively pursuing opportunities in this area.

25. Zhou Rui

Age: 25

University (PhD): NUS

Course of Study: R&D in fabrication of organic photovoltaic Cell

Zhou Rui entered Singapore in 2009 to pursue his PhD in NUS.

Besides his undergrad degree from Zhejiang University, he also holds a Master degree from North Carolina State University – Raleigh.