

MEDIA RELEASE

MORE THAN 400 BUILT ENVIRONMENT SCHOLARSHIPS AND SPONSORSHIPS AWARDED BY BCA AND INDUSTRY FIRMS IN 2017

- 402 postgraduates, undergraduates and diploma students from built environment-related disciplines received their scholarships and sponsorships, awarded by BCA and 98 industry firms

- BCA has also formed a Tripartite Taskforce with the industry and Institutes of Higher Learning to enhance the current built environment education curriculum, internship and continuous education and training (CET) to equip graduates and professionals with the expertise in industry transformational areas

Singapore, 20 September 2017 – The Building and Construction Authority (BCA) and a record number of 98 industry firms, awarded 402 scholarships and sponsorships today at the BCA-Industry Built Environment Scholarship and Sponsorship Award Ceremony 2017. The scholarships and sponsorships are part of BCA-Industry efforts to attract, develop and retain a strong Singaporean core for the built environment sector.

2. BCA Chief Executive Officer Mr Hugh Lim said: “We are very pleased to have more than 400 scholarship and sponsorship recipients this year. The stronger take-up this year, compared to about 370 awards in 2016, is a positive response to efforts to transform the built environment sector. Students joining the sector today can look forward to exciting and fulfilling careers as we work together to build a high quality, productive and environmentally sustainable sector.

3. “The higher participation from industry shows that Singapore firms are investing in nurturing the next generation of industry leaders. This is encouraging as a strong Singaporean core of talents is important for the long-term growth of the sector,” added Mr Lim.

4. One of the industry sponsor firms is HSL Constructor Pte Ltd (HSL) - a regional infrastructure construction company which was founded in Singapore in 1994. HSL gave out scholarships and sponsorships to nine undergraduates this year.

5. HSL CEO Charles Quek said: “HSL Constructor Pte Ltd has always believed in providing meaningful careers and growing our talents. These scholarship and sponsorship programmes offered jointly with BCA will allow HSL to gain an early opportunity to select good candidates and build a stronger pipeline of human capital. HSL is expanding in our internationalisation efforts. To support our growth strategy, we welcome varied sources of recruitment. This year, we are pleased to receive an abundant and excellent cohort of candidates interested to be sponsored by HSL and build a career with us.”

6. BCA has also formed a Taskforce with Industry and Institutes of Higher Learning (IHLs) to strengthen the current built environment education curriculum, internship and continual education and training (CET) so that graduates and professionals will build up expertise in the key transformation areas. Known as the Built Environment SkillsFuture Tripartite (BEST) Taskforce, leading members of Industry and our IHLs will work with BCA in developing a comprehensive curriculum and internship programmes for the current and future cohorts of students. BCA in consultation with Industry has identified Integrated Digital Delivery (IDD), Design for Manufacturing and Assembly (DfMA) and green buildings as important for the next generation of industry professionals.

7. The Taskforce will also seek to improve the Continuing Education and Training (CET) framework so that existing built environment professionals have more opportunities

to upgrade their knowledge and skillsets in these key transformation areas. All of these will support our national efforts in transforming the built environment sector in Singapore. With such expertise, professionals of today and tomorrow will benefit from a wide range of career options.

8. Besides the Taskforce, BCA has also established a Built Environment young leaders network as part of BCA's efforts to develop a core group of future leaders for the sector .

9. The network provides opportunities for them to share their experience, expertise and knowledge. They can keep up-to-date with the latest developments in the built environment sector through learning journeys and site visits. They can also work collaboratively on projects that will benefit the community and society.

10. Minister for Social and Family Development and Second Minister for National Development Mr Desmond Lee was the Guest-of-Honour at the Award Ceremony which was held at the Marina Bay Sands Expo & Convention Centre.

Enclosed

Annex A – About the BCA-Industry Built Environment Scholarships and Sponsorships

Annex B – Built Environment Scholars and Sponsored Students 2017: Facts and Figures

Annex C – Selected Profiles of Exemplary Scholars and Sponsored Students

Annex D – About the Built Environment SkillsFuture Tripartite Taskforce

Annex E – About the Built Environment Scholarship and Sponsorship Club

Issued by the Building and Construction Authority on 20 September 2017

About BCA

The Building and Construction Authority (BCA) of Singapore champions the development of an excellent built environment for Singapore. BCA's mission is to shape a safe, high quality, sustainable and friendly built environment, as these are four key elements where BCA has a significant influence. In doing so, it aims to differentiate Singapore's built environment from those of other cities and contribute to a better quality of life for everyone in Singapore. Hence, its vision is to have "a future-ready built environment for Singapore". Together with its education arm, the BCA Academy of the Built Environment, BCA works closely with its industry partners to develop skills and expertise that help shape a future-ready built environment for Singapore. For more information, visit www.bca.gov.sg.

About the BCA-Industry Built Environment Scholarships and Sponsorships

Introduction

The BCA-Industry Built Environment Postgraduate / Undergraduate / Diploma Scholarship/Sponsorship (full-time / part-time) is a partnership among BCA and industry firms to offer young people of high calibre and vision an opportunity to take up the challenge of a career in the built environment sector. The scholarship/sponsorship programme is tenable for full-time and part-time built environment courses at the local Universities, Polytechnics and the BCA Academy.

Undergraduate Scholarship/Sponsorship (Full-time)	
<p>Built Environment Courses</p> <p>BCA Academy (BCAA)</p> <ul style="list-style-type: none"> • Civil Engineering • Construction Management (Building) <p>National University of Singapore (NUS)</p> <ul style="list-style-type: none"> • Architecture • Civil Engineering • Electrical Engineering • Environmental Engineering • Mechanical Engineering • Project and Facilities Management • Real Estate 	<p>Nanyang Technological University (NTU)</p> <ul style="list-style-type: none"> • Civil Engineering • Electrical and Electronic Engineering • Environmental Engineering • Mechanical Engineering <p>Singapore Institute of Technology (SIT)</p> <ul style="list-style-type: none"> • Civil Engineering • Sustainable Infrastructure Engineering (Building Services) <p>Singapore University of Technology & Design (SUTD)</p> <ul style="list-style-type: none"> • Architecture & Sustainable Design • Engineering Product Development
<p>Eligibility</p> <ul style="list-style-type: none"> • Singaporean Citizens and Singaporean Permanent Residents • 'A' level, Polytechnic students and undergraduates • Outstanding academic results • Excellent CCA records 	
Scholarships	Sponsorships

About the BCA-Industry Built Environment Scholarships and Sponsorships

<ul style="list-style-type: none">• Minimum S\$18,000 per year per scholar who is either a Singapore Citizen or Singapore Permanent Resident with at least a one-year bond with the sponsoring firm	<ul style="list-style-type: none">• Minimum S\$10,000 per year per sponsored student who is either a Singapore Citizen or Singapore Permanent Resident with at least a one-year bond with the sponsoring firm
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About the BCA-Industry Built Environment Scholarships and Sponsorships

<p>Diploma Scholarship/Sponsorship (Full-time)</p> <p>Two stages: During Diploma study and Post-diploma development* (after graduation) <i>* In line with the SkillsFuture Earn and Learn Programme, provides a clear progression path and attractive salaries for diploma graduates</i></p>													
<p>Scholarships</p> <p>Stage 1: During diploma study:</p> <ul style="list-style-type: none"> The scholar will receive an annual allowance of S\$15,000 and serve at least a two-year bond with the sponsor company <p>Stage 2: After graduation:</p> <table border="1"> <thead> <tr> <th>YEAR</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td> Sponsoring firm will: <ul style="list-style-type: none"> provide the diploma graduate with a structured On-Job-Training pay the diploma graduate a minimum basic salary of S\$2,200 </td> </tr> <tr> <td>2</td> <td> <ul style="list-style-type: none"> Sponsoring firm will enrol the diploma graduate in a part-time Specialist / Advanced Diploma course¹ Diploma graduates who are Singaporean Citizens / Singaporean Permanent Residents will receive a minimum monthly basic salary of S\$2,400 BCA will provide the SC / SPR diploma graduate an upgrading incentive of up to S\$4,600 if they complete their bond and receive the Specialist / Advanced Diploma. </td> </tr> </tbody> </table>	YEAR		1	Sponsoring firm will: <ul style="list-style-type: none"> provide the diploma graduate with a structured On-Job-Training pay the diploma graduate a minimum basic salary of S\$2,200 	2	<ul style="list-style-type: none"> Sponsoring firm will enrol the diploma graduate in a part-time Specialist / Advanced Diploma course¹ Diploma graduates who are Singaporean Citizens / Singaporean Permanent Residents will receive a minimum monthly basic salary of S\$2,400 BCA will provide the SC / SPR diploma graduate an upgrading incentive of up to S\$4,600 if they complete their bond and receive the Specialist / Advanced Diploma. 	<p>Sponsorships</p> <p>Stage 1: During diploma study:</p> <ul style="list-style-type: none"> The sponsored student will receive an annual allowance of S\$7,000 and serve at least a two-year bond with the sponsor company <p>Stage 2: After graduation:</p> <table border="1"> <thead> <tr> <th>YEAR</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td> Sponsoring firm will: <ul style="list-style-type: none"> provide the diploma graduate with a structured On-Job-Training pay the diploma graduate a minimum basic salary of S\$2,200 </td> </tr> <tr> <td>2</td> <td> <ul style="list-style-type: none"> Sponsoring firm will enrol the diploma graduate in a part-time Specialist/Advanced Diploma course¹ Diploma graduates who are Singaporean Citizens / Singaporean Permanent Residents will receive a minimum monthly basic salary of S\$2,400 BCA will provide the SC / SPR diploma graduate an upgrading incentive of up to S\$4,600 if they complete their bond and receive the Specialist / Advanced Diploma. </td> </tr> </tbody> </table>	YEAR		1	Sponsoring firm will: <ul style="list-style-type: none"> provide the diploma graduate with a structured On-Job-Training pay the diploma graduate a minimum basic salary of S\$2,200 	2	<ul style="list-style-type: none"> Sponsoring firm will enrol the diploma graduate in a part-time Specialist/Advanced Diploma course¹ Diploma graduates who are Singaporean Citizens / Singaporean Permanent Residents will receive a minimum monthly basic salary of S\$2,400 BCA will provide the SC / SPR diploma graduate an upgrading incentive of up to S\$4,600 if they complete their bond and receive the Specialist / Advanced Diploma.
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About the BCA-Industry Built Environment Scholarships and Sponsorships

Eligibility

- Singaporean Citizens and Singaporean Permanent Residents
- 'O' level / ITE school leavers and polytechnic students taking full-time built environment diploma courses
- Outstanding academic results and excellent CCA records

Built Environment Courses

Stage 1

Full-time Diploma courses

BCA Academy

- Architecture (Technology)
- Construction Engineering
- Construction Information Technology
- Design (Interior and Landscape)
- Electrical Engineering & Clean Energy
- Facilities Management
- Mechanical Engineering (Green Building Technology)
- Quantity Surveying

Nanyang Polytechnic

- Electrical Engineering with Eco-Design
- Spatial Design (renamed from Space and Interior Design)
- **[NEW]** Sustainable Architectural Design²

Ngee Ann Polytechnic

- Clean Energy Management
- Electrical Engineering
- Environmental & Water Technology
- Hotel & Leisure Facilities Management

Stage 2:

Part-time Specialist / Advanced Diploma courses

BCA Academy

- Specialist Diploma in Architectural Technology
- Specialist Diploma in Building Cost Management
- Specialist Diploma in Building Information Modelling (BIM)
- Specialist Diploma in Construction Management
- Specialist Diploma in Construction Productivity
- Specialist Diploma in Design for Manufacturing & Assembly (DfMA)
- Specialist Diploma in Facility & Energy Management
- Specialist Diploma in Interior & Landscape Design
- Specialist Diploma in Lean Construction
- Specialist Diploma in M & E Coordination
- Specialist Diploma in Virtual Design & Construction (VDC)

Ngee Ann Polytechnic

- Diploma (Conversion) in Facility Management
- Specialist Diploma in Sustainable Facilities Management

About the BCA-Industry Built Environment Scholarships and Sponsorships

<ul style="list-style-type: none"> • Mechanical Engineering • Real Estate Business • Sustainable Urban Design & Engineering <p>Republic Polytechnic</p> <ul style="list-style-type: none"> • Green Building Energy Management <p>Singapore Polytechnic</p> <ul style="list-style-type: none"> • Architecture • Civil Engineering with Business • Electrical & Electronic Engineering • Energy Systems and Management • Hotel & Leisure Facilities Management • Integrated Events & Project Management • Interior Design • Landscape Architecture • Mechanical Engineering <p>Temasek Polytechnic</p> <ul style="list-style-type: none"> • Clean Energy • Environment Design • Green Building & Sustainability • Integrated Facility Management • Interior Architecture & Design 	<p>Singapore Polytechnic</p> <ul style="list-style-type: none"> • Advanced Diploma in Building Automation & Services • [NEW] Advanced Diploma in Civil Engineering³ • [NEW] Specialist Diploma in Civil Engineering (Productivity & Technology)³ • Specialist Diploma in Energy Efficiency and Management <p>Temasek Polytechnic</p> <ul style="list-style-type: none"> • Specialist Diploma in Energy Management & Sustainable Design
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¹ Sponsoring firm pays for unsubsidised portion of the course fee, after Ministry of Education (MOE) / SkillsFuture Singapore (SSG) subsidy (where applicable)

² Students will have sound grounding in architectural design and the use of technologies for sustainable architectural and urban solutions. As designers and technologists, they will be equipped with skills across disciplines to meet the manpower needs in architecture, construction, green and smart building development, urban design/ planning and real estate development.

About the BCA-Industry Built Environment Scholarships and Sponsorships

³ These courses are in line with the Built Environment Sectoral Manpower Plan to include the emerging trend of productive technologies in the built environment sector, such as Design for Manufacturing and Assembly (DfMA), Prefabricated Pre-finished Volumetric Construction (PPVC), Building Information Modelling (BIM) and Advanced Reinforced Concrete and Steel Design and Ground Engineering. Students from these courses will gain the expertise in productive technologies, advanced structural design and ground engineering for better career progression in the industry.

About the BCA-Industry Built Environment Scholarships and Sponsorships

Postgraduate Sponsorship (Part-time) provides existing built environment professionals with opportunities to upgrade their skills and knowledge by pursuing part-time postgraduate courses at local institutions. Sponsored postgraduate students will have 70% of their course fees subsidised and will serve a one-year bond with the sponsor company.

Built Environment Courses

BCA Academy / University of Florida (UOF)

- Master of International Construction Management with Major in Construction Productivity

Nanyang Technological University

- Master of Science (Civil Engineering)
- Master of Science (Environmental Engineering)
- Master of Science (International Construction Management)
- Master of Science (Mechanical Engineering)

National University of Singapore

- Master of Science (Building Performance and Sustainability)
- Master of Science (Environment Management)
- Master of Science (Integrated Sustainable Design)
- Master of Science (Civil Engineering)
- Master of Science (Electrical Engineering)
- Master of Science (Environmental Engineering)
- Master of Science (Geotechnical Engineering)
- Master of Science (Mechanical Engineering)

Singapore University of Social Sciences

- Master of Human Capital Management

Eligibility

Singapore Citizens and Singapore Permanent Residents* who are applying for the part-time built environment postgraduate courses

** Male applicants must have completed or be exempted from full-time National Service*

About the BCA-Industry Built Environment Scholarships and Sponsorships

Undergraduate Sponsorship (Part-time) allows sponsoring firm to upgrade and retain their high-potential Singaporean employees, whom the firms wish to groom to take up higher management and professional roles in the built environment. Sponsored undergraduates will have 70% of their course fees subsidised and will serve a two-year bond with the sponsoring firm.

Built Environment Courses

BCA Academy / University of Newcastle

- Construction Management (Building)

BCA Academy / Singapore University of Social Sciences

- Building and Project Management

BCA Academy / Singapore University of Social Sciences / Singapore Polytechnic

- Facilities and Events Management

Nanyang Technological University

- Electrical and Electronic Engineering
- Mechanical Engineering

National University of Singapore

- Civil Engineering⁴
- Mechanical Engineering

Singapore University of Social Sciences

- Bachelor of Human Resource Management

Eligibility

Singapore Citizens and Singapore Permanent Residents* who are applying for the part-time built environment undergraduate courses

* Male applicants must have completed or be exempted from full-time National Service

⁴ This course provides another pathway for those employed diploma graduates to pursue a specialist or part-time degree while working and the full course fee is paid by BCA and their existing employer.

About the BCA-Industry Built Environment Scholarships and Sponsorships

Diploma Sponsorship (Part-time) provides existing built environment professionals with opportunities to upgrade their skills and knowledge by pursuing part-time diploma courses at local institutions. Sponsored diploma students will have 70% of their course fees subsidised and will serve a one-year bond with the sponsoring firm.

Built Environment Courses

BCA Academy

- Construction Engineering
- Electrical Engineering & Clean Energy
- Facilities Management
- Geo-Spatial Information and Technology

Singapore Polytechnic

- Power Engineering
- Mechanical Technology

Ngee Ann Polytechnic

- Building Services & Fire Safety
- Electrical
- Mechanical

Republic Polytechnic

- International Human Resources Management

Eligibility

Singapore Citizens and Singapore Permanent Residents* who are applying for the part-time built environment diploma courses

** Male applicants must have completed or be exempted from full-time National Service*

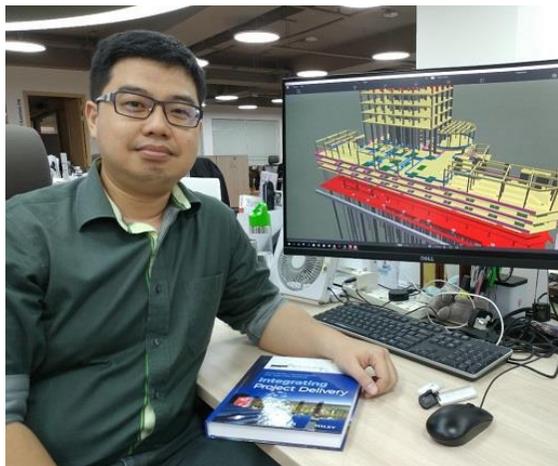
BCA-Industry Built Environment Scholarships and Sponsorships: Facts and Figures

Table 1: Built Environment Scholars and Sponsored Students 2017 – Overall

	Total	Male	Female
Undergraduate Scholars	152	110	42
Sponsored Undergraduate Students	97	55	42
Diploma Scholars	33	18	15
Sponsored Diploma Students	88	54	34
Sponsored Postgraduate Students (Part-time)	24	18	6
Sponsored Undergraduate Students (Part-time)	4	4	0
Sponsored Diploma Students (Part-time)	4	3	1
Grand Total	402	262	140

Selected Profiles of Exemplary Scholars and Sponsored Students

Upgrading Opportunities for Working Adult

**Fong Yew Chung Alvin, 40 years old**

- BCA-Kimly Built Environment Diploma Sponsorship (Part-time)
- Diploma in Construction Engineering (BCA Academy)
- Employer: Kimly Construction Pte Ltd

"I am grateful to be given the opportunity to pursue the diploma under the joint sponsorship by my employer, Kimly Construction, and BCA. The sponsorship programmes have provided not only financial support, but more importantly, an opportunity for in-service personnel like me to learn about the latest technology in construction practice. This sponsorship also motivates me to do well throughout my term at BCA Academy and eventually, value add to my employer and contribute more effectively to the built environment sector."

Since young, Mr Alvin Fong Yew Chung has been fascinated by the engineering feats in tall buildings and long bridges. He is always curious about how buildings are built, the innovative building processes, and the new building materials and technology. He possessed a National Technical Certificate in Civil/Structural Drafting from the Institute of Technical Education (ITE), but was determined to continue his education.

Alvin is a strong believer in lifelong learning and feels that everyone should upgrade themselves whenever possible. Seeing how the built environment sector has grown and progressed through the years, it has given him the drive to improve his knowledge and skill beyond his scope of work.

Throughout his 18-year career in consultancy and contractor firms, he has been working on projects of differing scope. He strongly felt the need to expand his construction related knowledge by pursuing higher education to complement his work experiences and has continuously upgraded himself through different built environment related courses such as Building Information Modeling (BIM) and Virtual Design & Construction (VDC).

As an Assistant BIM Manager with Kimly Construction since 2016, he is tasked to implement VDC at both project and company level. The knowledge gained from the upgrading courses have certainly helped him to be better equipped to handle projects.

Selected Profiles of Exemplary Scholars and Sponsored Students

Recognising Alvin's potential, passion and commitment to his job, Kimly Construction decided to support his development by co-funding his part-time Diploma in Construction Engineering at BCA Academy.

Having to juggle work, family with two young kids, aged 9 and 4 and education concurrently, it has been challenging for him. Fortunately for him, his wife is very supportive of his decision to take up the part-time diploma course and his parents have rendered their support by taking on a bigger role in looking after his two boys. To him, the support from his family and company plays an important role in his decision to further his education.

Kimly Construction has always been very supportive of BCA's manpower initiatives over the years. They have participated in various scholarship and sponsorship programmes such as the BCA Undergraduate (full-time), Diploma (full-time), Undergraduate (part-time) and the recent Diploma (part-time) programmes. They believe that by tapping on all the programmes, they are able to recruit and retain more talents within the organisation. All these programmes have provided them with a platform to support the development of their workforce.

Selected Profiles of Exemplary Scholars and Sponsored Students

Overcoming Life's Obstacles through Grit

**Mohammad Fadell Bin Baharuddin, 34 years old**

- 2017 BCA-LC&T Builder Built Environment Diploma Sponsored Student
- Serving his bond LC&T Builder Pte Ltd

"I am grateful to be given the opportunity with LC&T Builder to gain first-hand experience and knowledge of construction projects. LC&T Builder has created a friendly workplace environment which makes me feel like a member of their family."

Mohammad Fadell Bin Baharuddin has always been fascinated by how a building or structure can be brought into reality from the imagination and creative ingenuity of an architect. During his studies at Singapore Polytechnic, he found architectural courses to be most challenging, but he also found tremendous delight in the process of having his own ideas and concepts turned into reality through tools such as Computer-Aided Design and 3D modelling.

Life has not been entirely smooth sailing for Fadell. He came from a separated family and has been financially independent since secondary school. Being awarded the BCA-Industry Built Environment Diploma Sponsorship has helped to reduce his financial stress. BCA provided him with job matching assistance, which includes facilitating interviews with sponsoring firms, and he was offered a sponsorship by LC&T Builder (1971) Pte Ltd which was impressed by Fadell's determination and his "never give up attitude" for a better future.

Fadell started work with LC&T Builder in July 2017 and has been deployed as a Building Information Modelling (BIM) co-ordinator to produce three-dimensional structural models and shop drawings using BIM software. He is fascinated by the potential of BIM, a tool which he was only taught the basics during his time in the polytechnic. Being aware of BIM as a key technology to improve productivity and integration across various disciplines in the construction value chain, Fadell is looking forward to overcoming the challenges associated with the complexity of projects and developing his abilities and knowledge further in this area.

LC&T Builder (1971) Pte Ltd signed the HR pledge in year 2014 to commit to the adoption of good HR practices and will strive to continue to be an attractive employer of choice in the built environment.

Selected Profiles of Exemplary Scholars and Sponsored Students

Channeling His Passion for a New Career

**Phee Soon Leong, 25 years old**

- 2016 BCA- JIA Quantity Surveyors and Project Managers Pte Ltd Built Environment Diploma Scholar
- Diploma in Quantity Surveying (Year 2) at the BCA Academy

Upon graduation from Civil Engineering in ITE, Soon Leong decided to take up to Quantity Surveying (QS) for his diploma studies at BCA Academy. He was inspired by his course in Higher Nitec. Coming from an engineering discipline, he is comfortable with numbers.

Soon Leong recognised that the demand for QS has increased significantly and explored QS courses during his National Service.

Having been awarded the BCA-Industry Built Environment Diploma Sponsorship, it has boosted his self-motivation and commitment to his studies. Becoming a quantity surveyor is more than about having a relevant academic qualification. Soon Leong believed that quantity surveyors should be excellent communicators and possess the numeracy skills to handle the quantitative demands of the role.

Impressed by Soon Leong's enthusiasm, JIA Quantity Surveyors and Project Managers Pte Ltd offered him the BCA-JIA Quantity Surveyors and Project Managers Built Environment Diploma Scholarship in 2017. Even though he was also approached by an engineering contractor firm before his graduation, Soon Leong decided that he wanted to join a consultancy firm instead. This was after Mr. Lim Kah Soo, Director of JIA Quantity Surveyors and Project Managers Pte Ltd shared with him the importance of getting involved in projects at various stages from the start to end. Soon Leong is excited about his career progression pathway in the built environment sector with his sponsoring firm. He says, "Given the demands of the construction industry and its challenges, I need to be innovative in my approach when it comes to problem solving." Soon Leong looks forward to embarking on his built environment career.

JIA Quantity Surveyors and Project Managers Pte Ltd signed the HR pledge in year 2016 to commit to good HR practices and will strive to continue to be an attractive employer of choice.

Selected Profiles of Exemplary Scholars and Sponsored Students

Growing His Career with His Employer's Support

**Ronald He Rongqin, 27 years old**

- BCA-Industry Built Environment Postgraduate Sponsorship (Part-time)
- Master of Science (Civil Engineering) at the National University of Singapore
- Employer: Arup Singapore Private Limited

"I am honoured and also thankful to both Arup and the BCA for the opportunity to pursue the Bachelor and Master degrees under the joint sponsorship. The part-time sponsorship has provided financial support for working engineers like myself. More importantly, this was an excellent avenue to learn about the latest technology in civil engineering practice. Having been awarded this sponsorship, it motivates me to excel in my term at NUS and contribute back to the built environment sector in the future."

While pursuing his Bachelor in Engineering (Civil) at National University of Singapore (NUS) in 2013, Ronald He Rongqin was awarded the BCA-Arup Built Environment Undergraduate Scholarship. By taking up this programme it provided him with job security well before graduation and he was positive about his career prospects in the built environment sector.

Upon graduation in 2014, he started serving his bond with his sponsoring firm, Arup. He was given the opportunity to work on projects involving Building Information Modelling (BIM) in complex underground projects such as Singapore's Thomson – East Coast Line and Riyadh's Metro Line in Saudi Arabia. Besides the local opportunity given, he also had a chance to work at Arup in London with the Riyadh Metro Project team which was an eye opening experience for him.

His civil engineering knowledge acquired during his bachelor studies and internship at Arup gave him an edge when dealing with his present job scope.

Selected Profiles of Exemplary Scholars and Sponsored Students

After gaining exposure to a wide range of local and overseas projects of different scope, he felt a strong need to deepen his civil engineering knowledge. That is what spurred him to pursue a higher education to complement his work experiences.

Recognising Ronald's potential, passion and commitment to his job, Arup continued to support his professional development by co-funding his part-time Master of Science (Civil Engineering) at National University of Singapore through the BCA-Industry Built Environment Postgraduate Sponsorship (part-time) programme this year.

Arup has been very supportive of the BCA-Industry Undergraduate (full-time) Scholarship and Sponsorship programmes through the years. Ronald is Arup's first employee to be sponsored for post-graduate upgrading. Arup also enrolled three of their existing employees for the BCA-Industry Built Environment Postgraduate (part-time) Sponsorship programme in 2017. Arup was able to leverage on these programmes to attract new talent and also in supporting their employees in pursuing higher learning.

Selected Profiles of Exemplary Scholars and Sponsored Students

Determined to Succeed in the Face of Adversity



Samuel Joel Ng Rui Ming, 25 years old

- 2017 BCA-HSL Built Environment Undergraduate Scholar
- Pursuing Bachelor Degree in Civil Engineering, Year 4 at Nanyang Technological University

Since young, Samuel has developed a passion for creating things, such as his own toys out of paper and cardboard. As a hands-on individual, Samuel enjoyed making pottery as an art club member during his secondary school days. His fascination with design and satisfaction from building his own creations spurred his interest in Civil Engineering which led him to enrol into the course at Nanyang Technological University (NTU).

Being dyslexic and hearing-impaired in his left ear, Samuel had to go through speech therapy and faced many challenges in learning when he was younger. However, with much hard work and the determination to do well, he managed to overcome these difficulties and performed well in his later academic years.

Samuel also developed an interest in public speaking, becoming a member of NTU's Toastmasters Club and was even awarded the title of 'Best Speaker' twice.

As Chairman of the "Sing and Strum" acoustic band groups and the Head of Logistics for the "Fine Art Production" theatre group in his NTU hostel, Samuel hopes to put his organisational skills as a leader into good use to help him in his future career.

Motivated by the idea of being involved in the development of energy buildings and facilities which HSL Constructor Pte Ltd is involved in, Samuel accepted the BCA-HSL Built Environment Undergraduate Scholarship award in 2017. Earlier this year, Samuel did his internship with a smaller contractor firm as he wanted to gain more practical experience at the construction site. He was given the opportunity to be involved

Selected Profiles of Exemplary Scholars and Sponsored Students

in the actual construction project of a terrace house and the tender application for modifying the school of Art, Design and Media Building at NTU.

With the scholarship award, Samuel is certain of his career choice in the built environment sector. He looks forward to his future contribution at HSL and aspires to be a project manager after gaining sufficient knowledge and experience as a site engineer in this sector.

Selected Profiles of Exemplary Scholars and Sponsored Students

A Career in a Contractor Firm as a Female Engineer

	<p>Tan Teng Fong Rebecca, 22 years old</p> <ul style="list-style-type: none"> • 2017 BCA-Santarli Built Environment Undergraduate Scholar • Pursuing Bachelor Degree in Civil Engineering, Year 4 at National University of Singapore <p>Despite knowing that Civil Engineering is a male-dominated industry, Rebecca was attracted to the idea of helping to shape the development of Singapore, and this led to her choice to apply for Civil Engineering at the National University of Singapore (NUS) as her first choice of undergraduate studies. Inspired by her professors in NUS who have shared their passion and involvement in various iconic construction projects like Gardens by the Bay, Rebecca is excited to contribute in the future developments of the Built Environment sector.</p> <p>Rebecca has been active in many school activities, such as undertaking a leadership role as the project director of the Civil and Environmental Orientation Camp in 2015.</p>
<p>She feels that her experience in organising the camp is very much alike the role of a project manager which require good leadership and interpersonal skills to effectively lead a team in a construction project. She had also put her engineering knowledge to good use by participating in Overseas Community Involvement Project, in which she was involved in building toilets and houses for the local communities in Yunnan, China and Prey Veng, Cambodia respectively.</p> <p>Last year, Rebecca had the opportunity to experience in infrastructure projects while she work in HDB as an intern. This internship experience has helped to affirm her choice to work in a construction firm which she could put her technical knowledge into practical use and seeing drawings of buildings come to life at the construction site. Seeing the potential in Rebecca, Santarli Construction Pte Ltd awarded her the BCA-Santarli Built Environment Undergraduate Scholarship in 2017. The scholarship award has given her a form of recognition for her efforts in NUS as a budding civil engineer and also provided her a form of job security before she graduates. Rebecca is excited to contribute</p>	

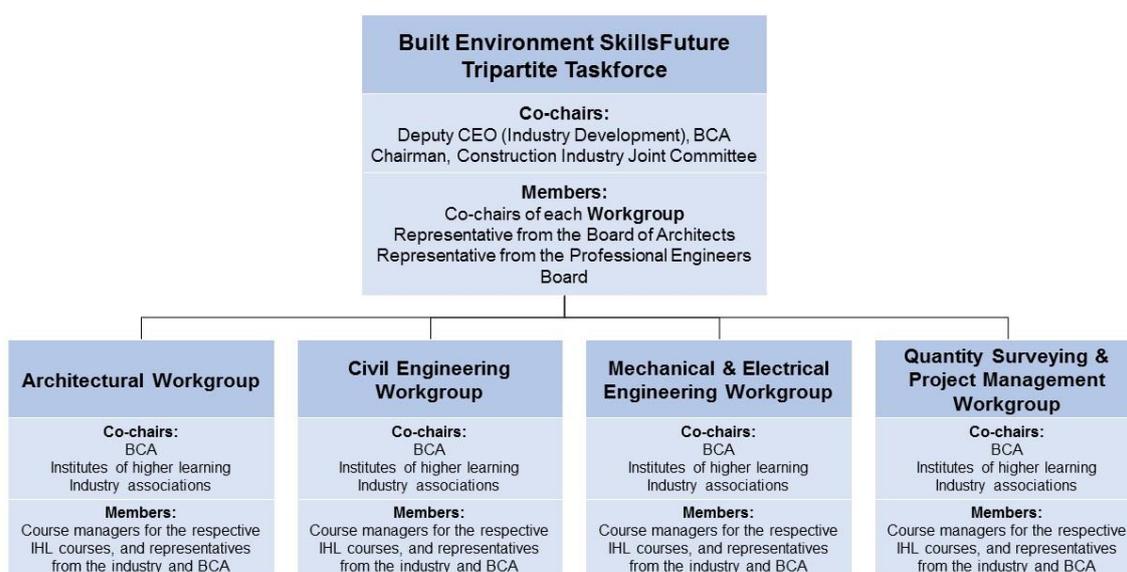
Selected Profiles of Exemplary Scholars and Sponsored Students

to Santarli upon graduation and hopes to be part of the transformation journey for the construction industry by embracing technology and innovation to achieve higher productivity and quality construction.

About the Built Environment SkillsFuture Tripartite Taskforce

The **Built Environment SkillsFuture Tripartite Taskforce** is a tripartite collaboration among BCA, institutes of higher learning and the built environment.

BCA Deputy CEO (Industry Development) and the Construction Industry Joint Committee Chairman will chair this Taskforce, which comprises four Workgroups represented by members of the industry and the academia from the various disciplines of the built environment – architecture, civil engineering, mechanical & electrical engineering, quantity surveying and project management.



The Taskforce will:

- A. Develop comprehensive training pathway in industry transformation areas covering Pre-Employment Training (PET), internship and Continuing Education and Training (CET):
 - Infuse Integrated Digital Delivery (IDD), Design for Manufacture and Assembly (DfMA), green buildings' in curriculum, with emphasis on inter-disciplinary collaborative projects:
 - ✓ Recommend mechanisms / frameworks to ensure adequate teaching resources, e.g. train the trainer and (or) industry to provide adjunct lecturers / mentors
 - ✓ Put in place a framework for regular updates to institutes of higher learning on developments in the sector
 - Develop a capstone programme to prepare current graduating students for built environment careers (interim), which could be part of pre-internship training:

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B. Enhance Industry/Institutes of Higher Learning (IHL) partnerships by

- Looking into collaboration models to:
 - ✓ Attract new entrants through scholarship / sponsorship and rebranding
 - ✓ Ensure graduates are ready to enter the sector workforce through PET (pre-employment training) and internship
 - ✓ Upgrading and retaining built environment personnel through CET (continuing education and training) and life-long learning
