



MEDIA RELEASE

Republic Polytechnic collaborates with Rolls-Royce in materials science and composites skills development

MoU expands scope of existing collaboration and deepens industry-relevant learning experiences for students

Singapore, 9 September 2016 – Republic Polytechnic (RP) today inked a three-year Memorandum of Understanding (MoU) with Rolls-Royce to provide RP students with more holistic learning experiences and opportunities for deeper industry immersion in the area of failure investigation and Non-Destructive Testing (NDT).

Signed during RP's annual Diploma in Materials Science Industry Engagement Day, the new partnership will expand existing collaborative efforts between RP and Rolls-Royce. RP is currently the first polytechnic to embark on an ongoing final-year project with Rolls-Royce in the area of failure investigation and NDT. RP students and staff have been working on this project with Rolls-Royce to automate the inspection of aircraft components using an automated scanning system. The team aims to enhance conventional failure investigation techniques through the development of a fully-automated scanning system. The system aims to improve productivity by enabling human-robot collaboration in detecting defects within aircraft components. The MoU will provide more avenues for RP students and staff to work on this and other research and development projects.

Rolls-Royce will also lend its aerospace and technological expertise to co-develop and enhance RP's curriculum for Pre-Employment Training (PET) students and Continuing Education & Training (CET) adult learners in the areas of advanced materials and composites. To facilitate knowledge transfer and encourage students to discover the materials science and composites industry, RP and Rolls-Royce will jointly organise learning activities and events including industry talks, workshops, and excursions to composite-related industries.

Rolls-Royce will also provide supervision for students' final-year projects and offer industry attachment opportunities for students and staff.

Mr Seto Lok Yin, Deputy Principal (Industry Services), Republic Polytechnic said, "We are grateful for this partnership with Rolls-Royce, which strengthens our collaboration and provides more opportunities for RP students to engage in industry-based learning. Through joint research projects and industry attachments, our students and staff will acquire critical skillsets and be exposed to industry-leading technologies and resources at the Rolls-Royce facilities."



Dr Bicky Bhangu, Singapore Director, Rolls-Royce, said, “We are delighted to be extending our collaboration efforts with Republic Polytechnic in the area of materials science and composites. This MoU will offer students and staff the opportunity to develop their experience and knowledge on a real industry challenge, while also offering potential productivity improvements to Rolls-Royce.”

Since 2012, Rolls-Royce has been providing industry attachments for RP students across various disciplines in areas that include materials failure investigation, NDT, manufacturing, data analytics and computational engineering.

Rolls-Royce’s Materials Support Laboratory, housed within its Seletar Campus, recruits the largest number of polytechnic interns from RP’s Diploma in Materials Science course. The Laboratory conducts research and technology work on advanced aerospace materials, giving students the opportunity to hone crucial skillsets and gain relevant industry experience in failure investigation and NDT.

About Republic Polytechnic

The first educational institution in Singapore to leverage the Problem-based Learning approach for all its diploma programmes, Republic Polytechnic (RP) has seven schools and one academic centre offering forty-one diplomas in Applied Science, Engineering, Enterprise and Communication, Hospitality, Infocomm, Sports, Health & Leisure, and Technology for the Arts.

Republic Polytechnic is committed to nurturing innovation and entrepreneurial learning in an environment that develops problem-solving skills and lifelong learning opportunities. Its holistic and broad-based curriculum prepares students for an active and meaningful role in society as problem solvers, respected professionals and passionate citizens.

Republic Polytechnic strives for excellence by achieving various international and national accreditations, including ISO 9001, ISO 14001, OHSAS 18001, ISO 22301, Singapore Quality Class, People Developer, Innovation Class, and Service Class.

For more information, visit <http://www.rp.edu.sg>

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