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NEWS

**EMBARGOED UNTIL 9AM, TUESDAY SEPTEMBER 20 SINGAPORE TIME
OR 9PM, MONDAY SEPTEMBER 19 U.S. EASTERN TIME**

Pratt & Whitney to Establish Singapore Technology Accelerator

SINGAPORE, September 20, 2022 – Pratt & Whitney announced today it will establish a technology accelerator in Singapore in collaboration with the Singapore Economic Development Board (EDB). Technologies developed in Singapore will be applied across Pratt & Whitney's global maintenance, repair and overhaul (MRO) footprint.

The facility, serving as a center of excellence for technology advancement, will help to accelerate the development and deployment of technology insertion projects across Pratt & Whitney's four Singapore-based MRO facilities over the next five years. The projects, expected to be worth at least S\$31 million (or US\$22 million), will focus on automation, advanced inspection, connected factory and digital twin, helping to enhance connectivity and intelligence across the company's MRO operations.

The Singapore technology accelerator will be located at the Seletar Aerospace Park, within the heart of Singapore's aerospace industry ecosystem. Expected to be ready for occupation in the fourth quarter of this year, it will add 16 new positions, which the company plans to fill with local, full-time employees.

"We are proud to work together with the Singapore Economic Development Board to develop innovative solutions for Pratt & Whitney's MRO operations. The technology accelerator signals just how relevant and important a role technology has played, and continues to play, in the aerospace industry. Pratt & Whitney has been innovating for nearly a century, and we are looking forward to this collaboration with the Singapore aerospace ecosystem towards Industry 4.0 transformation," said Gilbert Sim, director, Aftermarket Global Operations Technology and CORE, Pratt & Whitney. "The push for digitalization is underway across our facilities in Singapore, and the technology accelerator will increase the speed and scalability of these technology projects. The mission of the accelerator nicely aligns with Singapore's push to digitalize the economy."

"To date, our Asia-Pacific MRO facilities have done a great deal in the way of technology insertion, including developing the first-in-MRO application of 3D printing for aero-engine component details, pioneering robotics in the sector and launching an industrial simulation software pilot that has already resulted in optimized floor space and increased productivity," said Kevin Kirkpatrick, vice president, Aftermarket Global Operations, Pratt & Whitney. "Our employees continue to test the limits of what is possible."

As the world emerges from the COVID-19 pandemic, Pratt & Whitney's GTF™ engine utilization is strong, leading the single-aisle segment recovery. Pratt & Whitney is seeing significant demand in its commercial engine MRO businesses as utilization increases and customers resume engine maintenance. When it comes to capacity, capability, sustainability and technology, Pratt & Whitney is investing and ensuring it delivers today for tomorrow's needs.

"We are excited to collaborate with Pratt & Whitney on the Singapore Technology Accelerator that will develop MRO technologies to be deployed across its global network." said Lim Tse Yong, Senior Vice President, Conglomerates, EDB. "Pratt & Whitney's investment is testament to Singapore's position as a leading aerospace hub and strong ecosystem for innovation. We will continue to partner with the aerospace industry to enable the recovery in air travel and its long-term growth."

Pratt & Whitney is also in discussions with Singapore's Agency for Science, Technology and Research (A*STAR) on technology innovation. The A*STAR hosts Singapore's aerospace program that drives innovation in emerging technologies and develops industry-relevant technologies for commercial aerospace.

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About Pratt & Whitney

Pratt & Whitney is a world leader in the design, manufacture and service of aircraft and helicopter engines, and auxiliary power units. To learn more, visit www.prattwhitney.com. To receive press releases and other news directly, please sign up [here](#).

Editor's Note:

- To remain competitive, Pratt & Whitney launched a dedicated effort across the company's worldwide footprint to modernize and transform its operations, supporting the overall Raytheon Technologies (RTX) Industry 4.0 Operating System. [Industry 4.0 at Pratt & Whitney](#) refers to the digitization, automation, connectivity and data intelligence – these are changing the nature of industrial manufacturing and MRO.
- To date, Pratt & Whitney has seen enhanced operational effectiveness from technology insertion initiatives within Asia Pacific. Some of these examples include:
 - First-in-MRO application of 3D printing for aero-engine component details successfully deployed at Component Aerospace Singapore, while pioneering robotics in the MRO sector, such as the development of an automated system to replace manual fixtures for tube repair.
 - Industrial simulation software pilot, implemented at Pratt & Whitney Component Solutions, creates a Digital Twin of a factory, showing movement of product, people, process steps and inventory, and enabling analysis of cycle times, turnaround times, cost, quality signature, and overall equipment effectiveness with the press of a button. The pilot resulted in optimized floor space and increased productivity.
 - Collaborative robot, or cobot, developed by local engineers at Eagle Services Asia that assists technicians on shop floors to take detailed photographs and document engines

arriving and leaving the facility. It means rather than maintenance technicians manually taking the photographs, they are learning to program and manage the robots and do other more substantive work.

- Wearable technology or smart glasses boost use and application in multiple areas such as training, troubleshooting and equipment qualification. Smart glasses integrate a camera, a small screen and audio to enable hands free communication and during travel restrictions amid the pandemic, a pair of smart glasses allowed the successful engine audit at the Christchurch Engine Center in New Zealand.