

CAE partners with the University of New South Wales to develop an artificial intelligence-driven evaluation system for Mission Aircrew

CAE Australia commences research project with UNSW under the Defence Trailblazer program

Sydney, Australia, 21 November 2023 – (NYSE: CAE; TSX: CAE) – CAE Australia announced it has commenced a research project in partnership with UNSW (University of New South Wales) as part of the Australian Government’s Department of Education Trailblazer Universities Program.

Combining the expertise of CAE and UNSW, the project aims to develop a unique assessment system that leverages modern learning approaches and artificial intelligence to improve the training experience and performance of Australia’s Mission Aircrew. The project is part of the Defence Trailblazer program, focusing on the acceleration and commercialisation of innovative solutions to address the critical training and operational requirements of the Australian Defence Force (ADF).

The proposed assessment system will integrate innovative tools and learning approaches, including the CAE Adaptive Learning Environment (ALE), to support improved mission aircrew performance, reduced time in training, and increased situational awareness of personnel who operate under various levels of cognitive load.

“UNSW is thrilled to collaborate with CAE to address challenges in Robotics, Autonomous Systems and Artificial Intelligence (RAS-AI) by combining cognitive science, biometrics, and artificial intelligence. This project will address defence requirements to understand the training needs of system operators where there is the potential for high cognitive load and task performance risk,” said Dr. Oleksandra Molloy, Senior Lecturer at UNSW and Chief Investigator of the joint project.

During the project, CAE and UNSW will focus on replicating complex operational tasks and training scenarios using simulation to assess how advanced training tools and technologies can reduce cognitive load. This will help to improve the decision-making of command-and-control personnel in complex operational environments.

“We are excited to partner with CAE to accelerate the delivery of innovative training solutions designed to enhance the performance and safety of military personnel in critical combat situations. Tactical readiness

will be crucial to the success of every future mission undertaken by the ADF”, shares Dr. Sanjay Mazumdar, Executive Director, Defence Trailblazer.

“Innovation is not a choice, but a strategic imperative for our industry to proactively address the evolving requirements of defence and deliver at the point and time of need,” said Matthew Sibree, Managing Director Indo-Pacific, CAE Defence & Security. “CAE Australia is honoured to participate in the Defence Trailblazer program. Together with UNSW, we can accelerate the implementation of training technologies to enhance the mission preparedness, safety, and performance of our personnel – our most critical asset in defence capability.”

The Defence Trailblazer program, created in partnership between the University of Adelaide and UNSW, connects 41 industry partners with academia and the Government to respond to Australia’s most complex defence and national security challenges. Together with industry partners, CAE continues to integrate innovative synthetic training technology and modern learning methodologies to propose a world-class training experience for Australia’s defence personnel.

“As we advance training capabilities to meet future requirements, training providers must understand learner needs and align research initiatives to better support them,” said Chief Learning Officer, Dr. Regan Patrick, CAE Defense & Security. “Through collaboration with academic institutions and industry partners, we intend to improve the tools and approaches used to obtain new skills and competencies while accelerating mastery.”

About CAE

At CAE, we equip people in critical roles with the expertise and solutions to create a safer world. As a technology company, we digitalize the physical world, deploying software-based simulation training and critical operations support solutions. Above all else, we empower pilots, cabin crew, airlines, defence and security forces and healthcare practitioners to perform at their best every day and when the stakes are the highest. Around the globe, we’re everywhere customers need us to be with more than 13,000 employees in approximately 250 sites and training locations in over 40 countries. CAE represents more than 75 years of industry firsts—the highest-fidelity flight, mission and medical simulators and training programs powered by digital technologies. We embed sustainability in everything we do. Today and tomorrow, we’ll make sure our customers are ready for the moments that matter.

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