

Press Release

Airbus launches quantum computing challenge to transform the aircraft lifecycle

#QCChallenge #innovation

Toulouse, 22 January 2019 – Airbus has launched a global competition in quantum computing, inviting experts to propose and develop solutions, for complex optimisation and modelisation across the full aircraft life-cycle, using newly available computing capabilities.

The Airbus Quantum Computing Challenge (AQCC) aims to take science out of the lab and into industry, by applying newly-available computing capabilities to real-life industrial cases.

With traditional computers approaching their limits, the quantum computer promises to deliver a new level of computational power. As an active user of High Performance Computing (HPC), Airbus is already extending current capacity by integrating and leveraging quantum technologies in fields such as route optimisation and satellite imagery.

Through the challenge Airbus is looking to further explore solutions that quantum technologies can bring through the sharing of in-house and external knowledge, data and expertise. Five distinct challenges have been identified in the flight physics domain that have an impact on all aspects of Airbus' business, from design and operations, to airline revenue streams. With varying degrees of complexity, the statements range from the simple optimisation of aircraft climb to the more complex optimisation of wing-box design.

Open to post-graduate students, PhDs, academics, researchers, start-ups and professionals in the field of quantum computing, individuals or teams will compete for hardware access and for the opportunity to mature their ideas for industrialisation, working collaboratively with Airbus industry experts. The AQCC will run throughout 2019.

For more information visit: <https://www.airbus.com/innovation/airbus-quantum-computing-challenge.html>

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About Airbus

Airbus is a global leader in aeronautics, space and related services. In 2017 it generated revenues of € 59 billion restated for IFRS 15 and employed a workforce of around 129,000. Airbus offers the most comprehensive range of passenger airliners from 100 to more than 600 seats. Airbus is also a European leader providing tanker, combat, transport and mission aircraft, as well as one of the world's leading space companies. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions worldwide.

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