

Taking Flight with True Zero emissions Engine - HyFlux partners with Paihau-Robinson Research Institute

To decarbonise transport, with lightweight aviation motors & propulsion systems, HyFlux announce a strategic partnership with the Robinson Research Institute.

LONDON, UNITED KINGDOM, October 17, 2024 /EINPresswire.com/ -- [HyFlux](#) Ltd, a pioneering company in advanced propulsion technologies, is proud to announce a strategic partnership with the [Paihau-Robinson Research Institute](#), Victoria University of Wellington, and [Wellington UniVentures](#). This collaboration aims to decarbonise transport, beginning with lightweight aviation motors and propulsion systems, leveraging the potential of cryogenic hydrogen to drive superconducting technologies for sustainable aviation.

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We are thrilled to take our collective vision of zero-emission aviation to new heights. Making the superconducting technologies a reality, starting with aviation & expand into other forms of transport”

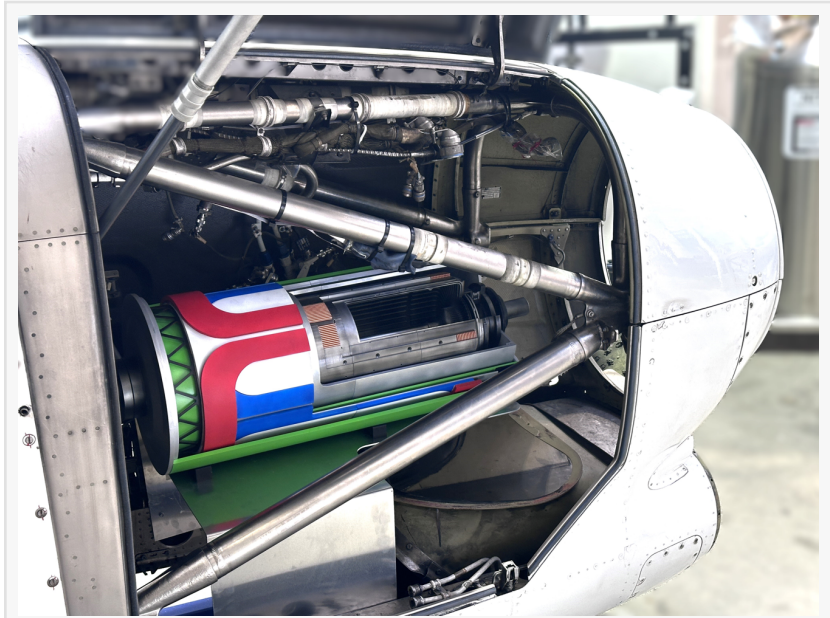
Paul Perera, CEO and Co-Founder of HyFlux

Paul Perera, CEO and Co-Founder of HyFlux, expressed his excitement about the partnership: “We are thrilled to join forces with such esteemed institutions to take our collective vision of zero-emission aviation to new heights. Together, we are committed to taking these

superconducting technologies a reality, starting with aviation and expanding into other forms of transport.”

This collaboration unites HyFlux’s cutting-edge innovations in superconducting motor technology with the world-class research expertise of the Robinson Research Institute, led by Professor Rod Badcock. Their combined efforts will push the boundaries of lightweight aviation propulsion systems that use cryogenic green hydrogen, addressing one of the most critical challenges in decarbonising aviation. Professor Rod Badcock of the Paihau-Robinson Research Institute commented: “This partnership marks a significant step toward achieving true zero-emission transport. While there is much to be done, we are confident that our combined knowledge and experience will accelerate the development and certification of these groundbreaking technologies for the aerospace sector.”

Pierre Malou, CEO of Wellington UniVentures, expressed his confidence in the impact of the partnership, highlighting the Paihau-Robinson Research Institute's track record of success: "The Paihau-Robinson Research Institute has an impressive history of transforming cutting-edge research into commercial success. This new partnership with HyFlux is set to be another game-changer, combining world-class expertise and a clear focus on developing global sustainable aviation solutions that can revolutionise the industry and be deployed in the near future to tackle greenhouse gas emissions."



Robinson Research Institute's 3MW fully superconducting motor concept (sectioned model) in an ATR-72 engine nacelle

The collaboration brings together extensive aerospace experience from industry leaders such as Airbus, Rolls-Royce, Siemens, GKN Aerospace, and BAE Systems. With this unique blend of expertise, the partners envision a clear roadmap to certifying and deploying advanced propulsion systems that can make a substantial impact on both CO₂ and non-CO₂ greenhouse gas emissions in aviation and maritime transport. Together, HyFlux and its partners are taking a decisive step towards realising a sustainable future in global transportation. As the world transitions towards clean energy, the development of superconducting motor technology offers a transformative solution for achieving zero-emission flight and shipping. We are confident this is a mission that others will endorse, and support with Governments and Airlines looking to support Sustainable Aviation with the formation of policies, and industry working groups like Jet Zero Council's in UK and Australia, and the New Zealand Government.

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