

Phasor Innovation is an Australian owned technology company based in Melbourne. Our team of scientists and engineers provides design and consulting services, as well as conducting cutting edge research & development in electronic warfare (EW) and quantum technologies.

Phasor Innovation has a reputation for providing innovative solutions to challenging problems in the RF/Microwave, electromagnetics, antenna, EW and quantum areas. We work predominantly in the defence sector, with projects in the land, sea, and air domains. Together with our partner universities, we are developing the next generation of quantum sensors for the defence, mining, industrial and healthcare sectors.

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National Quantum Strategy Building a thriving future with Australia's quantum advantage

industry.gov.au/quantum



esting the performance of a nitrogen-vacancy diamond-based vector agnetometer at the University of Melbourne Quantum Magnetometer est and Measurement Facility. Credit: Chris Lew, University of Melbourne

Case study: Transitioning from the lab to future applications

- Phasor Innovation is an Australian quantum business specialising in-radio frequency and microwave engineering
- electromagnetics
- system integration
- quantum technologies.

or Innovation is collaborating with the University of Melbourne and RMIT University on researchin oping the next generation of diamond-based quantum sensors. There are a range of new and em cations for this technology in many areas including the defence, mining, space and medical sector

The collaborative university and industry team successfully competed in the inaugural <u>Army Quantum</u> <u>Technology Challenge</u> in 2021 and are currently working together on a subsequent project to design. Construct, test and available a quantum dismono-based vector magnetomesen that will provide introver-surveillance and detection of bubbernames targets. The team has also received functing from Defence to thresh develop the technology for precision magnetic magnets multiplation in DISOBMINE environments.







Quantum diamond magnetic field sensors for improved situational awareness

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