

# Quantum-enabled positioning, navigation and timing (PNT)

How would you collaborate with Collins Aerospace to ensure accurate navigation for commercial aircraft when facing environmental or geographical disruptions leveraging quantum technology enablers?

Current global events are increasing the risk to commercial flights for encountering periods of unexpected navigation deviations or false positive navigation errors. Collins has a long history of providing best in class assured PNT products that support all phases of flight operations. These products utilize strategies, including redundant and dissimilar technologies, along with sensor fusion approaches, to increase the reliability and resiliency of their performance. Recent breakthroughs in quantum technology offer the promise of additional sensing modalities and fusion opportunities to further increase system performance. As we continue to evolve our products to meet the needs of the changing global environment, we are looking to collaborate with sensor, sensor fusion, and novel PNT algorithm technology providers utilizing quantum-based technologies. Such providers will work with our aircraft navigation and communications teams to validate the potential for novel resiliency functionality in lab and potentially flight environments.

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