April 1, 2026

# Spire Global Launches Satellite to Advance Measurement of Earth’s Magnetic Field in Support of MagQuest Challenge

VIENNA, Va.--(BUSINESS WIRE)-- Spire Global, Inc. (NYSE: SPIR) (“Spire” or “the Company”), a global provider of space-based data, analytics and intelligence, has successfully launched a satellite as part of the MagQuest Challenge, a prize challenge through the National Geospatial-Intelligence Agency (NGA) to advance how Earth’s magnetic field is measured, with multi-million-dollar prize awards. The satellite launched aboard SpaceX’s Transporter 16 mission.

The mission combines Spire's vertically integrated satellite infrastructure with SBQuantum's first-of-its-kind diamond quantum magnetometer system to provide a novel, commercial approach to geomagnetic data collection and demonstrate diamond-powered geomagnetic data collections from low Earth orbit (LEO).

MagQuest is a multi-phase open innovation challenge designed to evaluate new ideas to increase the efficiency, reliability, and sustainability of geomagnetic data for the WMM, the NGA’s representation of the Earth’s magnetic field. The WMM is currently used in essential public and military systems, including mobile navigation applications, surveying tools, antennas, solar panels, and GPS.

“Reliable positioning, navigation, and timing is a growing priority, particularly in GPS-degraded environments,” said Quintin Jones, Vice President and Head of North America at Spire Global. “Through the MagQuest challenge, we’re demonstrating how commercial satellite infrastructure can support new approaches to geomagnetic data collection and help advance technologies used by millions every day.”

“The launch of our diamond quantum magnetometer into orbit represents a major milestone for SBQuantum and for the future of global navigation on land, air and sea. We thank the NGA for the opportunity to demonstrate what the device can do in the extreme conditions of space,” said David Roy-Guay, Founder of SBQuantum. “With the help of our partners at Spire, our device will relay continuous monitoring of the Earth’s magnetic field down from space, providing crucial data to power the World Magnetic Model and all electronic compasses, including those found in smartphones."

Spire and SBQuantum will demonstrate operations of the satellite system and provide data to NOAA’s National Centers for Environmental Information and NASA’s Goddard Space Flight Center for assessment. There may be an opportunity for additional funding at the end of the challenge to sustain operations and data provisions beyond the three-year period. The results of MagQuest will inform NGA’s acquisition strategy for a WMM global magnetic field data collection capability.

**About Spire Global, Inc.**

Spire (NYSE: SPIR) is a global provider of space-based data, analytics and space services, offering unique datasets and powerful insights about Earth so that organizations can make decisions with confidence in a rapidly changing world. Spire builds, owns, and operates a fully deployed satellite constellation that observes the Earth in real time using radio frequency technology. The data acquired by Spire's satellites provides global weather intelligence, ship and plane movements, and spoofing and jamming detection to better predict how their patterns impact economies, global security, business operations and the environment. Spire also offers Space as a Service solutions that empower customers to leverage its established infrastructure to put their business in space. Spire has offices across the U.S., Canada, UK, Luxembourg and Germany. To learn more, visit spire.com.

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