
Products: atomic magnetometers

Total field magnetometer – compact, ultra-accurate

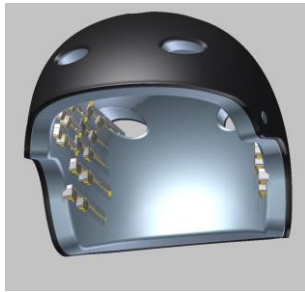
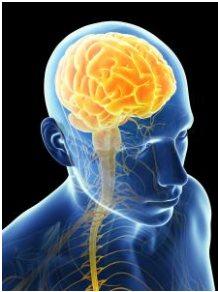
Zero-field magnetometer – ultra-sensitive

Highlights

- Order of magnitude improvements over existing systems in all areas: Size, Weight, Power, Cost
- Robust, reliable, simple integration, easy-to-use
- Non-cryogenic

Application areas

- Magnetic anomaly detection (MAD)
 - Detection of unexploded ordnance (UXO)
 - Magnetic observatories
 - Geophysical monitoring
 - Magnetoencephalography (MEG)
 - Machine-brain interface
 - ELF receiver
 - Mineral, gas and oil exploration
 - Operation on UAVs
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QUSPIN
AN ATOMIC DEVICES COMPANY



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Taking extreme field sensing
from the lab to the real world



Company

QuSpin was founded in 2012 as an atomic devices company leveraging technologies developed at the University of Colorado, National Institute of Standards and Technology (NIST), and Princeton University. One major milestone was developing a room-temperature biomedical magnetometer sensitive enough to make non-invasive brain measurements. Since then we have developed total field magnetometers with a broad range of civilian and military applications.

Since magnetism is one of the few fundamental and measurable quantities in nature, it is our belief that miniature, high-performance magnetometers like ours will open up new applications.

Mission/Vision Statement

- Our goal is to develop the highest performance atomic devices in the world by combining the latest advances in physics and technology.
- Our guiding principle is to support our customers and make them successful.
- We value innovation and hard work.



Core Competency

- Combining advanced atomic physics with engineering for high-performance, robust products
- In-house advanced manufacturing, MEMS assembly, 3D printing

Research and Milestones

QuSpin is working with U.S. Federal agencies like the National Institute of Health (NIH) and the Department of Defense (DoD). Together, through advanced research, we are finding novel solutions to long-standing technological challenges.

- Feb 2017 - Flight of QuSpin's TF magnetometer aboard UAV
- Sept 2016 – Begin shipment of TF-OPM
- Mar 2016 - NIH Phase II SBIR to develop mass manufacturing techniques for OPM
- Jan 2016 - Begin shipment of ZF-OPM (evaluation) units to early adopters
- Sept 2015 - Colorado Advanced Industries Accelerator Grant
- Dec 2014 - Navy Phase II SBIR to develop total field OPM
- June 2014 - QuSpin develops first total field (scalar) OPM prototype
- Dec 2013 - NIH Phase II SBIR to develop MEG system
- Nov 2013 - Results demonstrating our first ZF-OPM prototypes is published
- Sept 2013 - NIH Phase II SBIR to develop Fetal MCG system

Market/Customers

- DoD: ASW, locating UXO, IED detection, airport security, perimeter monitoring
- Engineering and research: non-destructive evaluation, archeology, geo-exploration, space
- Biomedical: Brain imaging (epilepsy, PTSD, TBI), fetal heart monitoring, cancer detection

