Post-doc and Graduate Student Positions in Atomic Magnetometry
University of Colorado, Boulder CO, USA

Miniaturizing atomic hot-vapor-based sensors and bringing them closer to use in applications has been the focus of our lab for many years. For this, we have implemented microfabrication technologies and 3D printing into our fabrication processes. In addition, we have built complete magnetic imaging prototype systems based on scalar and zero-field atomic magnetometers. For several applications, including magnetic imaging from space and from small airborne vehicles, accurate measurements of the magnetic field vector are needed.
We have open post-doc and graduate student positions to develop a highly accurate vector/scalar magnetometer for these applications. The work includes developing a detailed understanding of the underlying systematics, microfabrication to implement new optical setups, and guiding the development of a flight-ready prototype.
We are located at the Engineering Center of the University of Colorado Boulder, Colorado, USA. This project is a close collaboration with JILA/Physics, and Aerospace Engineering.
In addition, our group is involved in the development of non-invasive brain imaging with our magnetometers and is working closely with our neuroscience collaborators and industry to translate this work into clinical applications.

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