

## **POSTDOCTORAL POSITION: ATOM INERTIAL SENSORS FROM GROUND TO SPACE**

ONERA is developing since 15 years inertial sensors based on atom interferometry. ONERA is focusing on onboard applications in which measurements are made from a boat, a plane or a satellite. Particularly, ONERA realized for the first time marine and airborne gravity measurements with an atom sensor. These onboard atom sensors address a wide range of applications: space and terrestrial geodesy, geophysics (earthquake, ice melting, sea level rise), navigation, exploration, fundamental physics (universality of free fall, gravitational waves).

The candidate will work on the development of onboard atom inertial sensors. He/she will be involved in the experimental development of a multi-axes/ multi-species atom inertial sensor hybridized with classical sensors. He/she could also be involved in airborne or marine gravity campaign.

**Start date:** Mai - September 2019

**Postdoc duration:** 1 year renewable

**Profile:** PhD in experimental physics. A background in atomic physics (in particular on cold atoms) is appreciated but not mandatory.

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