



**Postdoctoral position at the Institut de Recherche en Astrophysique et Planétologie (IRAP)  
Elasticity of Mars' mantle minerals**

The Institut de Recherche en Astrophysique et Planétologie (IRAP) at the University Paul Sabatier (Toulouse, France) is opening a postdoctoral research position in the field of high-pressure mineral physics. The position is funded by the Agence National de la Recherche grant MAGIS (Mars Geophysical InSight) and an InSight Participating Scientist project.

The main project is to measure the elastic parameters and the sound velocities ( $V_p$ ,  $V_s$ ) of minerals candidate for Mars' mantle. The final goal is the estimation of the mineralogical composition of the mantle of Mars from the Mars InSight SEIS data. The postdoc will perform high-pressure high-temperature experiments in conjunction with synchrotron X-ray radiation and ultrasonic interferometry.

The position requires a highly motivated applicant with an interest in high pressure and temperature physics and chemistry, and planetary science. The candidate should have a background in either high-pressure experiments or elasticity of solids. He/She must have obtained a PhD or an equivalent international degree before the starting date of the postdoc position.

The position is available for two years, starting February 2020. It will remain open until filled. Salary follows French university standards and depends on the research experience since the PhD defense. All basic insurance benefits are provided. The Université Paul Sabatier is a leading French university with a long tradition of excellence in Earth and Planetary Sciences and is an equal opportunity employer.

Applicants should send a cover letter, curriculum vitae, statement of research interests and contact information for a minimum of two references.

For further information or to submit an application contact Dr. Frédéric Béjina or Dr. Misha Bystricky, IRAP, Observatoire Midi-Pyrénées, 14 av. Edouard Belin, 31400 Toulouse, France; Ph: +33 5 61 33 26 01; email: [frederic.bejina@irap.omp.eu](mailto:frederic.bejina@irap.omp.eu), [mbystricky@irap.omp.eu](mailto:mbystricky@irap.omp.eu)