

## **Post-Doctoral position at CSUG – Grenoble**

on imaging spectrometry instrumentation for space weather and planetology

The “Grenoble University Space Center” (CSUG / Univ. Grenoble Alpes-Grenoble INP) is inviting applications for a postdoctoral research position in the field of imaging spectrometry instrumentation for auroral monitoring. This position is open within the framework of the ESA contract dedicated to the development of the Wide Field Auroral Imager (WFAI) proposed to be a payload of the D3S mission. This instrument will be a wide field (60°) spectro-imager dedicated to the monitoring of the aurora for Space Weather purpose. Hyperspectral instruments are really important developments for both Space weather and Earth observation giving to the applicant a key position in these kind of developments. The applicant will be encouraged to participate to international meetings in the optical and space weather domains and to publish the results of his developments.

The applicant will work on the preparation of the WFAI instrument specifications and documents related to the instrument design and in the engineering model definition, manufacturing, verification and test, the goal being to validate to concept regarding ESA requirements. He/She will be also strongly involved in the development of data reduction and calibration methods of such innovative instruments, in the development of a preliminary engineering model as well as in their testing in the laboratory and in the field.

He/She will work at the CSUG in close collaboration with the IPAG (Institut for Planetology and Astrophysics in Grenoble) under the responsibility of Dr Etienne le Coarer, Mme. Juana Rodrigo and Dr Mathieu Barthélemy at the University of Grenoble Alpes, in close collaboration with the Pyxalis society in its staff. The applicant will be localized in IPAG building.

The successful candidate must hold a PhD in optics with an experience in Astronomy/Planetology, Earth remote sensing, space instrumentation or a related field. An experience in a large Space/Ground project will be strongly appreciated. A good experience in spectroscopy and/or image processing is also required.

Applications should include:

- a cover letter
- a curriculum vitae with list of publications
- a statement of current and future research interests (up to 3 pages)

The application, merged into a single pdf file, should be sent by email to Raluca Loctin (raluca.loctin@univ-grenoble-alpes.fr). The applicant should also provide the names and contact details of three professional references who could be contacted.

The contract will be for 18 month. The starting date of the appointment is as soon as possible from May 1<sup>st</sup>.

Informal enquiries are welcome and should be sent to the email address below.

Contact: Mathieu Barthélemy, director of the CSUG (mathieu.barthelemy@univ-grenoble-alpes.fr)