

Poste de Professeur des Universités section 35/36



A position of Professor in Section 35/36 Geophysics will be opened this spring 2019 at the University of Pau and the Pays de l'Adour. The recruited professor will be integrated into the [Laboratory of Complex Fluids and their Reservoirs](#) and based in Pau.

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Research profile

The grouping and expansion of the "Geological Reservoir Characterization" (GRC) team in 2016 within the LFCR has resulted in the emergence of a new research axis in the team around rock physics and geophysics, integrating geological information and multi-method imaging in order to better characterize the properties of geological reservoirs. The PR will be responsible for the scientific responsibility and animation of this scientific geophysical theme within the CRG team.

The geophysical studies in the CRG team focus on wave propagation, seismic, electrical, electromagnetic measurements and imaging in the laboratory and in the field. They are completed by an analysis of the textural properties of rocks (for example via microscopy or X-ray tomography with the DMEX Mixed Service Unit, UMS 3360 UPPA-CNRS). Beyond traditional petrophysical measurements, the approach aims at static characterization as dynamic of the poral network and heterogeneities, their anisotropies and their interactions with fluids.

The geophysical approaches in the MAF team focus on "measurement" and processing, from the scale of the laboratory sample to the scale of the sedimentary basin. The link with the physical properties of the environments studied implies increasing our skills in direct and inverse modelling of these measurements, taking into account the diversity of geophysical and geological investigation methods implemented within the team. The position of Professor may be at the interface between multi-scale geophysical characterization on the one hand and numerical approach, up/downscaling of properties and inversion on the other. It will be located in a perimeter covering field and laboratory geophysics as well as numerical geophysical modelling of reservoir characterization.

Teaching profile

The recruited professor may participate in undergraduate courses in Earth Sciences, in the Master's degree in Petroleum Engineering and Petroleum Engineering and possibly in other courses such as the Master's degree in Chemistry and Life Sciences. The "Pollution Management and Treatment Assessment - EGTP" course.

While respecting the skills and specialization of the recruited professor, the courses may cover all fields of geophysics, and more specifically seismic reflection (acquisition, processing, imaging, interpretation, modelling) as part of the Petroleum Engineering-Petroleum Engineering Master's program, in particular within the Geosciences program. In the medium term, the recruited teacher will have to be a driving force in the development and evolution of training (new training, new career paths, work-linked training, internationalization, etc.).