



ACADEMIC VACANCY

POSITIONS: Postdoctoral Fellow in Geosciences EEO# SC 24-16

RESPONSIBILITIES: The successful applicant will be responsible for conducting research in exploration geophysics and publishing peer-review technical papers. The possible research topics include but NOT limited to:

- Time-lapse seismic inversion for dynamic subsurface fluid properties characterization
- Diffraction seismic image and inversion for fracture detection and characterization
- Full waveform inversion with Lp (p<2) norm criteria for improved resolution
- Depth domain seismic inversion for reservoir characterization

QUALIFICATIONS: The successful applicant must have a PhD degree in Applied Geophysics, Applied Mathematics, or Applied physics (or a closely related scientific or engineering field). Desirable skills include:

- Strong programming experiences of Fortran and Matlab or other languages
- Knowledge of MPI programming

One or more of following according research topics:

- Knowledge of seismic processing
- Knowledge of seismic inversion for reservoir properties, especially Lp (p<2) norm optimization criteria
- Knowledge of full waveform inversion, especially Lp (p<2) norm optimization criteria
- Knowledge of diffraction wave image and inversion.
- Other exploration geophysics techniques

ADMINISTRATIVE: The Ray P. Authement College of Sciences consists of academic departments/programs in the disciplines of Biology, Chemistry, Mathematics, and Physics, as well as the Schools of Geosciences and the School of Computing and Informatics. The School of Geosciences combines the programs of Geology and Environmental Sciences and includes 15 full-time faculty members, including two instructors, approximately 150 undergraduate majors and 65 graduate students. Further information on the School of Geosciences is available at our website, <http://geos.louisiana.edu/>. Other departments and colleges, as well as with local industry, institutes, and centers involved with researchers in the School of Geosciences include, but are not limited to, the Civil and Petroleum Engineering Departments at UL, the local petroleum industry, The Institute for Coastal Ecology and Engineering, and the U.S. Geological Survey's National Wetlands Center.

The University of Louisiana at Lafayette (<http://www.louisiana.edu>), the leading institution within the University of Louisiana System, is a public institution of higher education offering bachelors, masters, and doctoral degrees. Within the Carnegie classification, UL Lafayette is designated as a Research University (high research activity)(RU/H). Located mid-way between New Orleans and Houston, Lafayette is a city of 120,000, one of Louisiana's fastest growing areas and the hub of numerous cultural festivals and activities.

SALARY: Commensurate with qualifications and experience. This will be an initial 12-18 month appointment, with the possibility for extension based on the availability of funding and work performance.

STARTING DATE: January 1st 2018

APPLICATION: To apply, send **as a single PDF file**, (1) a cover letter describing your interest in the position, (2) your CV/resume, and (3) names and contact information for three scientists that may be contacted for references to ruizhang@louisiana.edu. The review process will begin immediately and continue until the position is filled. To ensure full consideration, receipt of the complete application material is required before October 1, 2017. Questions regarding the position can be directed to Dr. Rui Zhang (ruizhang@louisiana.edu).

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