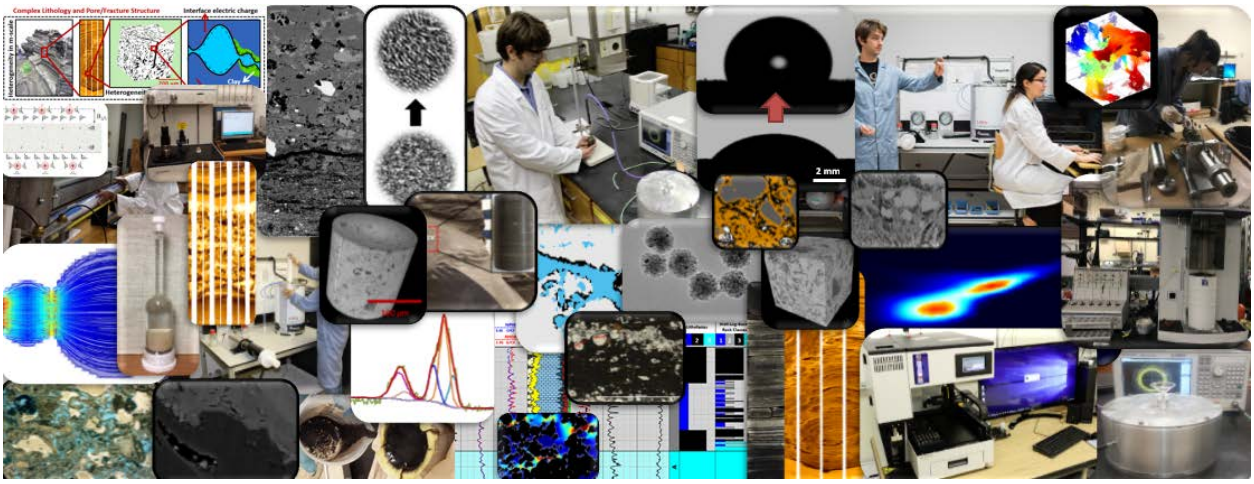
Postdoctoral Research Position
Multi-Scale Rock Physics Research Program
Hildebrand Department of Petroleum and Geosystems Engineering
The University of Texas at Austin

The "Multi-Scale Rock Physics Research Group" at the Department of Petroleum and Geosystems Engineering of The University of Texas at Austin has an open position for a postdoctoral researcher. Dr. Zoya Heidari, the Principal Investigator of this research program, invites qualified applicants to apply for this postdoctoral position.

The main goal of The University of Texas at Austin Rock Physics Research Program is to develop methods for reliable interpretation and integration of multi-scale physical properties of the rocks measured in the laboratory or in the subsurface in challenging formations such as organic-rich mudrocks and carbonate formations. The postdoctoral researcher will contribute to projects related to electrical properties of rocks and nuclear magnetic resonance (NMR) measurements and simulations for development of new techniques for reliable formation evaluation in unconventional and carbonate rocks.

Expected qualifications: The expected qualifications for the applicants are listed as follows:

- Earned a Ph.D. degree in physics-related, engineering, or geophysics majors
- Knowledgeable in numerical methods and proficient in at least one computer programming language
- Knowledgeable in electrical properties of heterogeneous materials
- Have interest and experience in experimental work
- Have at least three peer-reviewed publications
- Demonstrate good communication skills and team-work

Target start date: Fall 2018 or Spring 2019

Application process: Interested applicants should submit a detailed curriculum vita to Dr. Zoya Heidari (zoya@austin.utexas.edu). The applicants are encouraged to include a cover letter and explain how their skills can be applied to the work in this research group. Further information about the research objectives of the Multi-Scale Rock Physics Research Program can be found at http://zoyaheidari.net/research.