

Earthworks LLC Job Listing:

Senior Geophysicist

Duties:

Work in earth-science disciplines in the field of subsurface seismic imaging, energy resources, and civil engineering. Process and interpret high-resolution marine and land seismic data in the depth and time domains, build 3D and 2D subsurface velocity models and their correspondents depth images, develop and implement advanced processing algorithms for high-resolution sparse data sets for accurate mapping and characterization of shallow structures for ports and harbors. Perform risk estimation and decision analysis through integration of several geological and geophysical data sets and models to aid in the decision making for the expansion of ports and harbors in the US and oil-and-gas exploration. Perform advanced processing for research projects for heavy-oil characterization and imaging. Must adapt science and technology for very shallow high-resolution subsurface imaging where special problems exist.

Requirements:

PhD. in geophysics or completion of all requirements for degree including defense of thesis.

Requires knowledge of advanced processing algorithms of physical phenomena such as wave propagation in complex structures, using sparse irregular data to build 3D images in the depth domain and its corresponding time domain. Requires ability to write processing software in the UNIX environment, programming skills. Requires knowledge of mathematical methods, field data acquisition, rock physics, and geological interpretation. Seismic modeling experience must include real geological structures in 3D and its corresponding rock properties.

APPLY TO:

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