

EMPLOYER: ES Xplore LLC

JOB TITLE: Lead Signal Processing Engineer

LOCATION: Dallas, Texas

DUTIES: Develop geophysical exploration systems that combine novel signal processing techniques. Utilize database elements, and algorithms for patterns recognition, machine learning (especially applied to image or audio sensor processing systems), feature extraction, and statistical classification. Perform real time implementation experience of algorithms in hardware (ARM, DSP, FPGA). Implement systems using MATLAB, Spice, LabVIEW, C/C++. Develop standalone executable and graphical user interfaces (GUI) to control and analyze the Electromagnetic data. Develop simulation platform using Monte Carlo method and clustering techniques to verify analytical model. Transform data between Matlab and Petra, and Kingdom software. Perform research and development work.

REQUIREMENTS: Ph.D. or foreign equivalent degree in Electrical and/or Electronic Engineering, Computer Engineering or related field and 5 years of experience in research and development in signal processing. Experience therein to include 5 years with research and algorithm development and simulations technique; 5 years with MATLAB and C/C++; 5 years with pattern recognition, machine learning, feature extraction and statistical classification; 2 years with hardware implementation of algorithms for ARM, DSP, FPGA; 2 years with Spice, LabVIEW, GUI development; and 2 years with Petra, Kingdom and Mote Carlo method and clustering techniques.

To apply, please mail resume to ES Xplore LLC, Attn: Nick Kelley, Director, 1807 Ross Avenue, Suite #490, Dallas, TX 75201. Ref. Job #MZ1-W.