We are seeking a self-motivated and responsible graduate student to conduct research and development to enhance capabilities for remote, interactive and collaborative image analyses for the Digital Rocks Portal.

The Digital Rocks Portal (www.digitalrocksportal.org) is a data portal for fast storage and retrieval of images of varied porous micro-structures. It has the purpose of enhancing research resources for modeling/prediction of porous material properties in the fields of Petroleum, Civil and Environmental Engineering as well as Geology. This platform allows managing and preserving available images of porous materials and experiments performed on them, and any accompanying measurements (porosity, capillary pressure, permeability, electrical, NMR and elastic properties, etc.) required for both validation on modeling approaches and the upscaling and building of larger (hydro) geological models.

PROGRAM DATES:  June 1- September 1, 2016

MINIMUM QUALIFICATIONS:
Student needs to have most of the following skill sets:

- Web Programming (HTML5, Javascript, CSS)
- Python
- RESTful Web Services / AJAX
- Linux
- Shell Scripting

DESIRED QUALIFICATIONS:

- Experience with Django
- Experience in Imaging and 3D Visualization with Paraview
- Websockets
- VNC
- Interest and/or Experience in Parallel Computing
- Experience with Docker

SCHOLARS STIPEND

Participants will receive a stipend for work, travel stipend, and housing at The University of Texas at Austin.

APPLICATION & SELECTION

Online applications will be accepted until April 1, 2016 for priority consideration. Selection and notification will occur no more than two weeks after the close of the application site.

APPLY ONLINE: https://goo.gl/pz2Xaz

CRITERIA FOR STUDENT APPLICATION

- Currently enrolled graduate student
- U.S. citizenship or permanent residency

FOR MORE INFORMATION CONTACT

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