Postdoctoral Position on Machine Learning in Earth and Environmental Sciences.

The Department of Earth, Environmental and Resource Sciences at the University of Texas El Paso (UTEP), invites applications for a postdoctoral position on Machine Learning applications to Computational Fluid Dynamics and Hydrologic Modeling.

We seek a PhD in Computer Science, Data Science, Machine Learning, Artificial Intelligence, Earth Science, Environmental Science, Environmental Engineering, Civil Engineering, Geography, Water Resources Engineering, Fluvial Geomorphology or a related physical science field. The appointment is for 1-year initially but potentially renewable. The Postdoctoral Research Associate will work under the supervision of Professors Laura V. Alvarez and Hernan A. Moreno within the newly created center for Geospatial Sensing and Sampling of the Environment (GeoSenSE). The guiding research topic is on supervised, unsupervised and reinforced learning to improve Computational Fluid Dynamics (CFD) models that study macro-turbulence, sediment transport and bed evolution in large-scale river systems. The desired skills of potential candidates are: (1) Expertise on both machine and deep learning techniques, and (2) Computer programming using Linux platforms (e.g. c++, R or Python). Applications will be reviewed in a daily basis. Interested candidates should email their CV to Prof. Alvarez (alvarez@utep.edu) and prof. Moreno (moreno@utep.edu). Applications will be reviewed until a suitable candidate is found.

The Department of Earth, Environmental and Resource Sciences at University of Texas at El Paso is a vibrant group of 25 faculty representing a wide variety of geology, geophysics, hydrology, environmental science, and geography expertise. The degrees the Department offers include the B.S., B.A., and M.S. in Geological Sciences, the B.S. and M.S. in Environmental Science, the B.S. and M.S. in Geophysics, and a minor in Geography. Our Ph.D. in Geological Sciences includes students with interests in any of these subdisciplines. We also support student training in cross-campus interdisciplinary Ph.D. programs including the Environmental Science and Engineering, Computational Science, and Data Science Ph.D. programs. The University of Texas at El Paso is a national and international research university committed to access and excellence. UTEP enrolls over 25,000 students UTEP is designated by the Carnegie Foundation as an R1 university.