Research Positions at National Central University in Taiwan

We are inviting applications for several open positions for research staff and post-doctors to work at "Center of Advanced Models for Modeling Prediction Systems (CAMPS)" at National Central University (NCU) in Taiwan. Research positions range from assistant to full research staff depending on experience and qualification. Assistant, Associate, and Full Research Staff, respectively, have all the privileges and responsibilities as Assistant, Associate, and Full Professor, respectively, at NCU. Successful candidates will conduct research on “Next Generation Groundwater, Watershed, and Surface Water Modeling System.” These positions will begin immediately.

The candidates should have a PhD or MS degree specializing in groundwater and surface water hydrology, computational fluid dynamics, soil mechanics, environmental chemistry, biochemistry, computer sciences, or applied mathematics. Related experience in thermal-hydraulics-mechanics-chemistry (THMC) processes modeling and modeling framework development would be a big plus. The successful candidate will add to the expertise in our focuses in developing next generation groundwater, watershed, and surface water computational models. Candidates with strong background in: (1) enhancing coupled models of multiple phase flow, thermal transport, reactive transport, and geo-mechanics in multiple scale subsurface media; (2) developing coupled models of hydrological and biogeochemical cycles in watersheds of integrated multimedia; (3) performance safety assessment, risk assessment, and uncertainty analysis; (4) THMC application modeling and support; (5) unstructured mesh generation and graphical-based user interface (GUI) development; (6) development of modeling platforms; (7) high performance parallel computing and innovative computational algorithms; and (8) data model and parameter inversion and optimization will be preferred. Proficiency in at least one of the FORTRAN, C++, visual basics, and Java language is required.

To apply, please submit a vitae and statement of research interests in electronic files, and also arrange for three letters of recommendation to be emailed to gyeh@ncu.edu.tw. Screening of applications will begin immediately, and the search will continue until all positions are filled.