POSITION ANNOUNCEMENT

TITLE RESEARCH SCIENTIST II
DEPT ICASA

REG ✓ TEMP ☐ FULL TIME ☑ PART TIME ☐

STARTING RATE or SALARY RANGE: $65,000.00

JOB DUTIES:
Conduct research in complex system analysis, and in particular, contribute to the analytic process under development by ICASA. Develop tools and techniques that support the modeling, simulation, and analysis of a variety of critical infrastructure systems. Perform focused technical development in the area of Electric Power/Energy modeling, simulation, and analysis at the transmission level. Work in teams with peer and student researchers to develop theoretical and applied solutions to problems of interest. Give presentations and updates locally and at sponsor sites.

REQUIRED QUALIFICATIONS:
Master’s degree required in Electrical Engineering, Mathematics, Mechanical Engineering or closely related field. Experience in the modeling and simulation of large scale critical infrastructure systems, to include electric power (EP) grids required. Extensive experience in performing programming and scientific analysis in the Matlab environment required. Experience in the modeling and simulation of EP grids using PowerWorld software desired. Experience in the application of advanced analysis techniques to EP grids, e.g., parameter estimation, non-linear optimization, etc. desired. Outstanding communication skills, including experience in public speaking/lecturing required. Experience in the performance of scientific experimentation in a team environment required. Experience in mathematical and scientific modeling, including paradigms such as hybrid-dynamical systems modeling, cellular automata, agent-based modeling, and/or aggressive abstraction techniques for complex-system analysis required. Experience in the design and execution of scientific execution of scientific experiments supporting a large-scale and iterative research objective desired. Applicant must possess or be willing and able to obtain a Department of Defense security clearance, to include polygraph examination, within the first year of employment.

Apply to: New Mexico Tech, Human Resources 801 Leroy Pl, Brown Box 016, Socorro, NM 87801-4796