Faculty Specialist in large-scale agricultural systems modeling

Applications are invited for a Faculty Specialist in the Department of Geographical Sciences, University of Maryland, College Park, MD. The research specialist will be involved in research projects focusing on large scale agricultural system modeling to address issues associated with crop production, soil quality, and nutrient and water management. Specifically, the selected candidate will work on: a) implementing and improving in-house algorithms to produce spatial input databases required for model implementation; b) modifying and optimizing the existing modeling framework to improve its performance; c) interpretation, analysis and uncertainty assessment of model outcomes; d) publishing peer-reviewed research in journals; and e) involving in development of web based decision support tools.

Required Job Qualifications

1) An earned master’s degree in Master of Science in agricultural engineering, agronomy, environmental engineering, computational science or related fields.
2) Knowledge about using Geographical information systems and remote sensing tools.
3) Experience working with crop simulation models at spatial scale.
4) Experience working with Python, R, or other high-level scripting languages in a UNIX environment.
5) Experience in publishing in peer-reviewed journals.

Preferred Job Qualifications

1) Strong statistical and quantitative skills.
2) Familiarity with FORTRAN.
3) Experience with high performance computing and parallel programming techniques.

Applications should include a personal statement of background and experience relevant to the position, a signed, dated Resume/Curriculum Vitae, and names and addresses (including e-mail) of 3 references.

For best consideration applications should be submitted no later than November 29, 2019 but the search will continue until a suitable candidate is appointed. To apply go to: https://ejobs.umd.edu/postings/74641. Applications from women and minorities are particularly sought. The University of Maryland is an Equal Opportunity Affirmative Action Employer.

Further information on departmental research programs may be obtained from the address above and can be found at http://www.geog.umd.edu.