



College of Agriculture, Food and
Environmental Sciences

Agronomy, Horticulture, and Plant
Science Department

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Postdoctoral Researcher Position in Soil Science/Agronomy/Hydrology

A postdoctoral researcher position is available immediately in the Department of Agronomy, Horticulture and Plant Science (AHPS) at South Dakota State University (SDSU) for assessing the impacts of soils and crop management practices on soils and environmental quality. Selected candidate will work under USDA-NIFA and NRCS funded projects and use the application of X-ray computed tomography (CT) for analyzing soil pore parameters, techniques for studying microbial diversity, and process-based models such as HYDRUS, SWAT, APEX, DSSAT or DAYCENT for simulating management impacts at field and regional scales.

Selected candidates will have opportunity to collaborate with the highly expert modeling team in different universities, and if required, candidates will be encouraged to attend short modeling training/workshops provided by model professionals. Candidate will be encouraged to attend (at least one per year) professional meetings/workshops, and/or any other relevant meetings to present their research. Candidate will have the opportunity to develop their own research ideas within the project goals. Salary will be based on experience.

Minimum Qualifications:

- An earned doctorate by date of hire in soil science, agricultural engineering, agronomy, hydrology, environmental science or closely related field is required.
- Experience and training in soil and water quality sampling.
- Ability to effectively communicate in oral and written formats.
- Must have a driver's license or be able to obtain one.

Preferred Qualifications:

- Experience in statistical analyses using SAS and/or R software.
- Skills in GIS and remote sensing, process-based modeling, and computer programming.
- Strong publication record in refereed journals.
- Experience obtaining extramural funding and mentoring graduate and/or undergraduate students.

This position will be appointed on yearly basis, with the possibility of renewal up to two to three years based on performance and funding availability. Interested students should send the following documents in a single PDF File to Dr. Sandeep Kumar, Associate Professor of Soil Biophysics and Management, Department of AHPS, SDSU through email at Sandeep.Kumar@sdstate.edu:

1. a letter of research interests (prior field and modeling experience and professional goals)
2. CV
3. copies of transcripts
4. list of three names of the references.

Review of candidates will begin immediately and continue until a suitable candidate is hired. It is anticipated that the selected candidate will begin on May 01, 2020 though earlier or later employment will also be considered.