Post-doctoral Research Associate Position Available in Soil Erosion Modeling

Agricultural and Biological Engineering
Purdue University

This position involves application, testing, and possible modification of watershed, channel, and impoundment components of the USDA Water Erosion Prediction Project (WEPP) model. The incumbent will be responsible for verifying scientific correctness and performance of the erosion model for different agricultural field features, such as ephemeral gullies, grassed waterways, sediment-retention basins, etc., and will work closely with USDA-Agricultural Research Service scientists at the National Soil Erosion Research Laboratory (NSERL). Additionally close work with funding source (USDA-Natural Resources Conservation Service) staff on developing and expanding databases for channel and impoundment parameters will be included. Related research into climate change simulation, erosion model validation, and other topics may also be included. Previous experience using Python/R/Fortran programming languages, applying erosion models, and/or conducting model development/calibration/validation projects would be very beneficial.

This position is for one year with potential to be extended, and is available beginning in June 2023.

To apply send a CV to Professor Bernie Engel (Email: engelb@purdue.edu). Questions welcomed.