Title        Postdoc Research Scientist
Appointment Conditions  18 Months, Full Time
Proposed Start Date  As soon as possible
Job Description  The position requires application of the Soil and Water Assessment Tool (SWAT) water quality model for a variety of landuse and Best Management Practice (BMP) scenarios across a wide range of watershed scales, and will also require testing of the SWAT model using measured streamflow, in-stream pollutant levels, and crop yields. The work will be performed within the context of interdisciplinary teams, which includes Economists, System Analysts, and an Environmental Scientist at CARD, as well as other scientists in a variety of disciplines external to CARD. At the same time, the position provides the opportunity for the individual to develop and conduct an individual research program focusing on hydrology and water quality. He or she will present scientific results at professional meetings and publish technical papers in scientific journals.

Required Qualifications  Ph.D. in Civil Engineering, Agricultural Engineering, Environmental Sciences, Hydrology or related field (with graduate research experience). Extensive experience with SWAT. Strong computer and analytical skills to design new modeling concepts and techniques. Strong publishing and communication skills.

Preferred Qualifications  Experience and leadership in water quality modeling, including within interdisciplinary teams. Experience regarding the configuration and application of SWAT for alternative landuse and/or BMP scenarios, including applications that involve interfaces with evolutionary algorithms. Strong skills in managing and processing large databases and experience with the ArcSWAT GIS interface. Strong presentation skills to communicate complex environmental modeling results to project team members, scientific audiences, and policy makers.

Salary  $60,000 per year plus benefits

Contact Information  If you have questions regarding this position, please contact Dr. Philip W. Gassman at pwgassma@iastate.edu or 515-294-6313, or Dr. Catherine L. Kling at ckling@iastate.edu or 515-294-5767.