

PhD in Hydroinformatics and Integrated Hydrology

University of Nebraska-Lincoln's Hydroinformatics and Integrated Hydrology Research Group (HIH) has a PhD position available on Hydroinformatics to be filled by the fall of 2015. The research topic involves the development of information technologies to estimate uncertainty in regional crop irrigation requirements in a changing climate. This position is part of the collaborative activities between the University of Nebraska-Lincoln, the UNESCO's Institute of Water Education (UNESCO-IHE, Chair group of Hydroinformatics) in the Netherlands, and the Robert B Daugherty Water for Food Institute (DWFI). The incumbent will develop her/his PhD in Lincoln (1st and 3rd year of her/his PhD) and Delft (2nd year). Also, the awardee will be a DWFI PhD Fellow. HIH aims to improve the predictability of future water states through engineering information technologies and improvements of water-cycle modeling capabilities. The overall objective is to develop a platform that enables the estimation, understanding, and communication of uncertainty in water-state estimates in agricultural areas. We expect candidates with (1) experience in Land Surface Hydrology and/or Groundwater modeling; (2) strong programming skills (C, Fortran, Python, MATLAB or other high-level programming languages); (3) strong oral and writing communication skills; and (4) M.Sc. degree. Candidates' background in engineering and modeling is desired; however, individuals with strong mathematical and computational experiences are also encouraged to apply.

Interested candidates send CVs and Research Interests to Francisco Munoz-Arriola and Dimitri Solomatine (subject "HIH-Hydroinformatics PhD") using the email unl.ihe@gmail.com or fmunoz@unl.edu.

Full applications should be submitted to:

Biological Systems Engineering Graduate Program in Biological Engineering
<http://www.unl.edu/gradstudies/prospective/programs/AgAndBioSystemsEngr>
Or

School of Natural Resources' Graduate Program in Natural Resources Sciences
<http://snr.unl.edu/gradstudent/applicationprocess.asp>

While Lincoln has been recognized as one of the top most livable cities in the US, Delft is known by its history and multi-cultural environment. This represents a unique opportunity for an individual who would like to develop a career with a cross-continental academic experience.

Application review process will start in November 9th 2014. Applicants are encouraged to submit all the required documents before December 19th 2014. The source of financial support to this position will award the selected candidate as Robert B. Daugherty Water for Food PhD Fellow.