

# Position Announcement

## Two Post Doctoral Research Associates Irrigation Engineering and Evapotranspiration

University of Nebraska-Lincoln, Department of Biological Systems Engineering, Lincoln, NE

**Description:** These are non-tenure leading, post-doctoral research associate positions established for a period of two years with a possibility of three years, depending on the availability of funding in the third year. In general, the initial areas of focus will include, but are not limited to, the following: 1) conducting research on measurement of plant response to different environmental variables, including tillage and other management practices, 2) measurement of evapotranspiration and other surface energy balance components using Bowen ratio energy balance systems, eddy covariance systems, and soil water balances, 3) assist in field measurements related to crop physiological measurements (e.g., leaf area index, plant height, leaf stomatal resistance, canopy temperature, biomass, etc.), soil water characteristics, and other supporting measurements, and 4) calibrate and conduct routine maintenance of research equipment. The candidate will analyze research data, draft project reports, and prepare manuscripts for professional meetings and refereed journal articles. The candidate will be expected to assist in proposal development for federal funding. The candidate will also be expected to travel to research sites; interact with research technicians, graduate students, other postdoctoral research associates, natural resources district(s) personnel, and extension educators.

**Qualifications:** Candidate must have a doctorate degree in Agricultural and Biological Engineering or a related field, a strong background in measurement/modeling of evapotranspiration and surface energy balance components, and a demonstrated record of scholarship. Candidates must possess the desire and ability to work in a team environment, conduct field research, publish refereed journal articles, and assist in attracting external funding. He/she should have experience in operating and maintaining flux instrumentation (knowledge/experience in the Bowen ratio energy balance system concept is strongly preferred) and be knowledgeable and skilled in database management and analysis. Excellent verbal and writing skills are required in order to communicate and work within a team environment and to transfer the knowledge to external audiences. The candidate should have the capacity to carry out original, independent, and innovative research under general supervision. The incumbent will have annual evaluations carried out with the faculty supervisor.

**Salary:** Competitive and commensurate with background and experience.

**Application deadline and procedure:** Screening of applications will begin June 1, 2009. The position will remain open until filled. Hire date is negotiable with successful candidate. Candidates should send their cv, letter of interest, and at least two reference letters to:

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