Post-Doctoral Research Associate  
University of Nebraska-Lincoln

This is a non-tenure leading Statistical Genomics and Bioinformatics Post-Doctoral Research Associate position established for a period of one year with Dr. Stephen Kachman at the University of Nebraska-Lincoln. Continuation of this position beyond one year is contingent upon the availability of grant funding and satisfactory accomplishment of assigned responsibilities, up to a maximum of five years.

**Responsibilities:**

Duties will be oriented toward large data analyses and developing computational strategies and tools for genomic and bioinformatics applications in plants and animals. The projects include, but are not limited to:

1) Development of parallel computing strategies and tools for genomic and bioinformatics applications (including genomic prediction and selection);
2) Development of cost-effective strategies for handling large data in genomic and bioinformatics applications;
3) Development of computational tools that effectively bridge upstream genotyping platforms to downstream genomic and bioinformatics applications;
4) Design of optimal SNP panels for genetic diagnosis, parentage testing, and genomic prediction and selection;
5) Large-scale genomic data analyses with real applications for various species and including integrated breeding companies, and livestock producers.

Participate as a member of a team working closely with collaborators at UNL and genomics companies to further knowledge of the development and deployment of genomic predictors in livestock populations, and conduct joint research with supervisor on the above mentioned topics. Expected to work under the supervision of the supervisor to accomplish the research goals, prepare manuscripts for publication and prepare competitive grant proposals. Oversight for the position will be provided by Dr. Stephen Kachman (Statistics), Dr. Matthew Spangler (Animal Science), and Dr. Gota Morota (Animal Science).

**Qualifications:** PhD in statistics, bioinformatics, animal breeding, plant breeding or a closely related field along with a solid background in biostatistics, bioinformatics, programing (e.g., R and/or C/C++) and large-scale dataset analysis.

**Preferred Skills:** Preferred skills include a previous experience in Bayesian statistics and parallel computing.

For questions about the position, please contact Dr. Stephen Kachman (steve.kachman@unl.edu). To be considered for this position, send the following via email attachments: cover letter, curriculum vitae, and names and complete contact information for three references to Dr. Kachman. Review of applications will begin February 2, 2015, and continue until the position is filled. Applicants must be eligible to work in the United States. All hires are subject to final budgetary approval.

The University of Nebraska-Lincoln is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.