Ph.D. Position in **Computational Biology** at the University of Nebraska-Lincoln.

A co-advised Ph.D. position is available in the Libault ([https://libaultlab.unl.edu/node/2](https://libaultlab.unl.edu/node/2)) and Zhang Labs ([http://sysbio.unl.edu/](http://sysbio.unl.edu/)) at the University of Nebraska-Lincoln, Center for Plant Science Innovation (PSI, [http://www.unl.edu/psi/](http://www.unl.edu/psi/)), Department of Agronomy and Horticulture ([https://agronomy.unl.edu/](https://agronomy.unl.edu/)), and Department of Biological Sciences ([https://biosci.unl.edu/](https://biosci.unl.edu/)). The graduate student will apply and develop bioinformatics and computational tools to reveal the transcriptomic regulation of plant genes in response to biotic and abiotic stresses at the level of single plant cells. Using next generation sequencing datasets and single cell –omic approaches, the candidate will focus on a comparative analysis of the epigenomic and transcriptional responses between cells and between crop species. This innovative project presents opportunities to work in a collaborative environment with computational, molecular, and cellular biologists. Notably, the selected student will benefit from the complementary expertise of the Libault and Zhang laboratories in single cell biology and computational biology and a stimulating atmosphere with access to excellent facilities including bioinformatics facilities and colleagues for high-quality research in agricultural and plant sciences.

The selected candidate will manage large-scale sequencing data, and will gained practical experience of next-generation sequencing data analysis, computational systems biology, and omics data integration. In addition, the selected candidate will develop a solid knowledge in plant genomics, epigenomics, evolution, gene expression/regulation and biological networks. Proven skills in programming (R and Perl are preferred), algorithm design, Linux/Unix environments are also desirable.

Highly motivated and enthusiastic candidates with strong interests in bioinformatics, genomics, and crop/plant science are invited to apply. Excellent written and oral communications, as well as strong organizational skills, are required.

Interested candidate should apply by email to Dr. Marc Libault ([marc.libault@unl.edu](mailto:marc.libault@unl.edu)) and Dr. Chi Zhang ([zhang.chi@unl.edu](mailto:zhang.chi@unl.edu)). The email should include “Student application” in the subject and the following documents: (1) cover letter explaining candidate’s research interests and how they fit with this position, (2) CV, (3) contact information including phone numbers and emails for 3 references.

The position is available starting August 26th, 2019, and applications will be screened on a continuing basis till the position is filled.