Postdoctoral Scientist Position - Bioinformatics of Gene and Protein Expression in Polyploidy, Purdue University

**Description:** The ability to produce locus specific targeted DNA edits has become almost universally applicable to crop species with the advancement of the CRISPR method. We intend to apply existing knowledge of genome editing and plant transformation to edit wheat phenotype for improved traits. We aim to elucidate the relationships among alloplody, gene and protein expression, and the ultimate expression of phenotype. We invite applications for a postdoctoral scientist position in wheat bioinformatics. The goal of this position is to use the IWGSC RefSeq v1.0 wheat genome assembly and existing expression datasets to enhance our understanding of polyploidy and phenotype expression. Opportunities are also available for the successful candidate to enhance hands-on plant biotechnology skills and cross talk with the on-going genetic mapping and -omics projects in the lab. We encourage individuals with both bioinformatics and wet-lab skills to apply. The term is one year. Salary is commensurate with experience. Employment is pending on the final approval of the budget. The approximate start date for this position is January 8, 2019.

**Qualifications:**

- PhD in plant sciences, life sciences, and/or computer science
- Knowledge in global gene expression and protein expression techniques
- Experience in next-generation ‘omics’ bioinformatics
- Demonstration of integrating bioinformatics with wet lab –omics projects
- Excellent oral and written communication
- Experience with peer-reviewed publication

**Application Procedure:** Please submit a complete application including

1. Letter of interest outlining your understanding of alloplody, how you would integrate your bioinformatics skills in an environment with ongoing wheat trait mapping, -omics, and genome editing.
2. Curriculum vitae.
3. Contact information of two-three references.

Submit your single-PDF formatted document to Mr. Brandon Chafin (bchafin@purdue.edu) and Dr. Mohsen Mohammadi (mohamm20@purdue.edu). Applications are evaluated as they are received until a successful candidate is identified. Incomplete applications will not be considered for evaluation. A background check is required for employment in this position. For information about the position, please contact Dr. Mohsen Mohammadi (mohamm20@purdue.edu).

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