Postdoctoral Scientist Position – Genome-editing in Wheat for Higher Yields, Purdue University

Description: Applications are invited for a position of postdoctoral scientist in precision breeding and editing of phenotype in the Department of Agronomy, Purdue University. The ability to produce locus specific targeted DNA edits has become almost universally applicable to crop species with the advancement of the CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) method. This internationally funded research project aims to apply existing knowledge of genome editing and plant transformation to edit wheat phenotype for higher yields. The laboratory offers a great opportunity for the scientist to learn cutting-edge knowledge in biotechnology. The primary goal for this position, within the wheat breeding and genetics program, is to use CRISPR-cas9 technique to edit wheat genome for the genes our laboratory identified in prior genome-wide association studies (GWAS) and proteomics. The term is one year and renewable for up to an additional one year. Salary is commensurate with experience. Employment is pending on the final approval of the budget.

Required qualifications:

- PhD in plant biology (and related areas)
- Experience in plant tissue culture and plant genetic transformation methods
- Experience in physiological, morphological, and molecular characterization of transgenic plants in greenhouse and laboratory
- Excellent oral and written communication

Preferred qualifications:

- Experience in plant transformation of multiple crop species and genome-editing
- Experience with next-generation ‘omics’ bioinformatics platforms
- Postdoctoral research experience with peer-reviewed publication

Applications: Please submit a complete application including (1) cover letter, (2) curriculum vitae, and (3) contact information of two-three references. Submit your single-PDF formatted document to Mr. Brandon Chafin (bchafin@purdue.edu). Review of applications will begin September 10, 2018, and continues 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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