

Postdoctoral Research Associate in Wheat Molecular Genetics Focused on Stripe Rust Resistance at Washington State University, Pullman WA



Position Summary:

The Wheat Breeding and Genetics team at Washington State University is recruiting a motivated professional to carry out an integrated research effort in the area of molecular genetics of stripe rust resistance.

Contact: Contact Drs. Arron Carter (ahcarter@wsu.edu), Mike Pumphrey (m.pumphrey@wsu.edu), or Kim Garland-Campbell (kgcamp@wsu.edu) for additional information.

Position Details: The wheat breeding and genetics programs at Washington State University are well positioned to conduct world-class wheat research efforts, including modern facilities equipped with state-of-the-art genotyping and phenotyping platforms. WSU and USDA-ARS programs are international leaders in wheat breeding, genetics, physiology and pathology, with over 15 principal investigators.

The incumbent is expected to work with minimal supervision to lead wheat molecular genetics research focused on stripe rust resistance, leveraging significant scientific resources available through our involvement in the \$25 million NIFA Triticeae CAP grant, the \$40 million Durable Rust Resistance in Wheat Project, and several additional projects focused on genetics of rust resistance. Incumbent will discover and validate molecular markers linked to current and newly discovered sources of resistance; employ high-throughput genotyping (9K SNP, 50K SNP, and/or next-gen sequencing) for selection of seedling and adult plant rust resistance; conduct association mapping, bi-parental genetic mapping, and/or related approaches with appropriate statistical methods; and summarize results in peer-reviewed publications and at national and international meetings.

Minimum Required Qualifications: Ph.D. degree in Crop Science, Genetics, Plant Pathology or related field and relevant professional research experience. Excellent oral and written communication skills and an ability to work in team-based collaborative environment. Demonstrated ability to conduct research in a timely, accurate and professional manner. Demonstrated ability to analyze data using software developed for bioinformatics and genetic mapping such as BLAST, Mapmaker/JoinMap, SAS, QTL Cartographer, and TASSEL. Experience with cereal genetics and bioinformatics is preferred.

Anticipated Salary Range: \$3,250-3,750/month, dependent on qualifications and work experience. Full-time, 12 month temporary position renewable based on satisfactory performance.

Please submit a complete application including (1) a cover letter; (2) a curriculum vitae; and (3) the names, addresses, telephone numbers, and e-mail addresses of three references. **Send application by e-mail (to ahcarter@wsu.edu, m.pumphrey@wsu.edu, and kgcamp@wsu.edu)**

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