



Oregon State
University

Department of Horticulture

North Willamette Research & Extension Center
15210 NE Miley Road, Aurora, Oregon 97002-9543

Intelligent Sprayer Program. Post-doctoral Scholar.

Position Summary:

We are seeking a motivated applicant to develop and disseminate objective, science-based research to raise awareness of economic, environmental, and social benefits associated with computer-assisted applications of agricultural sprays. Topics of research interest include but are not limited to sprayer delivery accuracy and efficacy, crop or pest phenology modeling, pest/pathogen population ecology, economic analyses, and sprayer effects on non-target organisms. This position has been created to support our inter-departmental, multi-state, multi-agency “USDA Intelligent Sprayer” program. We work as a small group that is part of the large national team. The Oregon team leaders have expertise in agricultural entomology, plant pathology, and plant ecology and are looking for a candidate who will enhance or complement our strengths and bring their perspective and skills to this highly successful program.

The position will be stationed at the North Willamette Research & Extension Center in Aurora, OR, a beautiful research farm with views of Mt. Hood located in the suburban/agricultural matrix, in between the Portland and Salem metro regions. OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. In this position, you will have considerable independence to develop your skills and experience, receive mentorship from early and late career faculty. We are committed to teaching, research, outreach, and engagement, promoting economic, social, cultural and environmental progress for the people of Oregon, the nation, and the world. If you are interested in supporting our project and institutional goals, then we hope you apply for this position.

Position Duties:

- 30% Identify, design, execute, and analyze field or lab-based research that will optimize pesticide spray applications in horticultural crops.
- 30% Generate and disseminate peer validated and publicly accessible publications and creative works related to the advancement of precision spray applications in specialty crop production.
- 15% Deliver public presentations and conduct workshops at local, regional, and national venues. Support the development of internet accessible content such as website posts and social media outreach.
- 10% Assist with grant funding applications processes to support and develop research project goals.
- 5% Assist with on-farm visits, consultations, and other regional and national engagements with stakeholders including growers, legislators, and academics.
- 5% Schedule required materials purchases and maintain field plots and equipment used for research and Extension purposes.

- 5% Supervise students and temporary employees working in the laboratory and field, including planning, assigning, and approving work.

Minimum/Required Qualifications

- Ph.D. in Horticulture, Entomology, Integrated Pest Management, Agricultural Engineering, Crop Modelling, Plant Pathology, Agronomy, or relevant academic discipline
- Completed Ph.D. within three years of hiring date.
- Experience in designing, conducting, and analyzing lab and field experiments.
- Excellent communication skills in both verbal and written English
- A criminal history check is required to be determined to be position qualified as per OSU Standard 576-055-0000 et seq. Applicants are required to self-report convictions, and those in youth programs may have additional criminal history checks every 24 months. Offers of employment are contingent upon meeting all minimum qualifications including the criminal history check requirement.
- To be determined qualified the incumbent must complete a Motor Vehicle History check, possess and maintain a current, valid driver's license in their state of residence, and self-report convictions (as per Voluntary and Compulsory Driver Standards OAR 125-155-0200) as per OAR 576-056-0000 et seq.

Preferred (Special) Qualification

- Experience with farm equipment and agricultural spray applications
- Training and experience with economic entomology
- Experience with perennial horticultural crop production systems
- Experience with Oregon Nursery IPM
- A record of grant writing and reporting
- A record of peer-reviewed scientific publications
- Experience delivering educational material
- Supervisory experience
- A demonstrable commitment to promoting and enhancing diversity.

Working Conditions/Work Schedule

The Post-Doctoral Scholar may be required to work outside during inclement weather or evening/nighttime hours for data collection, depending upon the time of year and experimental protocol. Outside environments included agricultural, urban, and rural settings.

The position is available as early as January 2019 and includes two years of salary support (annual minimum \$48,432), including benefits. Additional position information is at <https://gradschool.oregonstate.edu/postdocs>

Applications or questions can be directed to: Robin Rosetta
Associate Professor, Extension Entomologist. North Willamette Research & Extension Center
15210 NE Miley Road, Aurora, Oregon 97002-9543. Robin.Rosetta@OregonState.Edu
Phone: 503-678-1264