



Ohio Agricultural Research  
and Development Center

Department of Entomology  
1680 Madison Avenue  
Wooster, Ohio 44691-4096  
Phone: 330-263-3725  
Fax: 330-263-3686  
Url: [www.oardc.ohio-state.edu](http://www.oardc.ohio-state.edu)

## **Assistant Professor: Honey Bee / Pollinator Biologist**

**Department of Entomology  
The Ohio State University  
Ohio Agricultural Research and Development Center  
Wooster, OH**

**LOCATION:** Department of Entomology, The Ohio State University, Ohio Agricultural Research and Development Center (OARDC), Wooster, Ohio (<http://entomology.osu.edu/>, <http://oardc.ohio-state.edu>).

**QUALIFICATIONS:** Ph.D. in Entomology, Zoology, or related field with focus on biology, genetics, and ecology of honey bees or other insect pollinators, including but not limited to, functional genomics, metabolomics, neurophysiology, behavior, pathology, or toxicology. Experience with pollinating insects is required, and applicants with prior experience relevant to honey bees will be strongly considered. Other qualifications include excellent oral and written communication skills, evidence of scholarly research and productivity, demonstrated potential for quality teaching, and willingness to collaborate. Desired qualifications include teaching and post-doctoral experience, and experience with extramural funding opportunities.

**POSITION DESCRIPTION:** Assistant Professor, 9-month tenure-track appointment focusing on honey bees and/or other pollinating insects, 80% research / 20% teaching.

For four decades, the Department of Entomology at The Ohio State University led research in honey bee genetics. At the forefront of these efforts was Dr. Walter Rothenbuhler, the preeminent honey bee geneticist in the country who made significant contributions to our understanding of honey bee biology and their importance to modern agriculture. Currently, 30% of Ohio crops depend on bees and other insects for pollination. The Department of Entomology at The Ohio State University wishes to reclaim the Rothenbuhler legacy and regain our ability to perform world-class research on pollinators. With the sequencing of the honey bee genome, we believe that molecular biology will make important contributions to understanding honey bee physiology and ecology, including their interactions with the pesticides, pathogens, and arthropod pests that impact the health of hives. Current methods in physiology, proteomics, metabolomics and structural and functional genomics—including recent second-generation sequencing technologies—hold great promise for significant advances in biology and ecology of the insects that provide critical pollination services to support agricultural production. This position is central to addressing these vital issues and to fulfill the OARDC's mission to enhance the well-being of the people of Ohio, the nation and world through research on food, agriculture, family and environment.

Research (80%): The successful applicant is expected to develop an internationally renowned research program focused on insect pollinators relevant to food production. Research areas include but are not limited to:

- molecular biology and functional genomics;
- neurophysiology, learning, and behavior;
- health of honey bee and other pollinators including interactions with pathogens, arthropod pests and pesticides;
- ecology of honey bees and other pollinator populations in agricultural and urban ecosystems;
- pollinator services to economically important plants.

Teaching (20%): The successful applicant will contribute to innovative undergraduate and graduate level curricula in entomology and related disciplines. Additional responsibilities include graduate seminar courses and the advising of graduate students.

**OARDC/OSU COLLABORATION:** We encourage close collaborations with existing teaching, extension, and research programs within the Department of Entomology including a world-class extension program in apiculture, research programs in functional genomics, population genetics, physiology, behavior, chemical ecology, plant-insect interactions, biological control, modeling, landscape ecology, and ecosystem management. Strong candidates would show interest and abilities in building intra-departmental expertise on projects to scale understanding of insect biology from genes to ecosystems. Opportunities also exist for collaboration with departments across the OSU campuses including Horticulture and Crop Science, Plant Pathology, and Evolution, Ecology, and Organismal Biology, as well as interdisciplinary programs in Molecular, Cellular, & Developmental Biology, Agroecosystem Management, Organic Food and Farm Educational Research, and Urban Landscape Ecology. There exists potential to interact with the highly active Wooster Area Molecular Biology Association (WAMBA) that builds partnerships among departments on the OARDC campus and inter-institutional collaborations with molecular biologists at the College of Wooster.

**FACILITY SUPPORT:** The successful applicant will have access to existing bee hives and apiculture facilities, as well as ample greenhouse space and land for field research, including agronomic, vegetable, and orchard field plots in Wooster, at other OSU campuses, and at the several OARDC Research Stations. We offer outstanding resources and equipment necessary for genomic sequencing, genotyping, and microscopy within the Department and at the Molecular and Cellular Imaging Center (<http://www.oardc.ohio-state.edu/mcic/>), as well as access to the Plant and Animal Agrosecurity Research facility (BSL-3 safety level) on the Wooster campus, which will be completed in 2012.

**APPLICATIONS:** Applicants should send a detailed curriculum vita, copies of academic transcripts, statements of research and teaching interests and philosophy, statement of experience with and approach to extramural funding, career goals, recent reprints or accepted manuscripts, and contact information (names, address, phone, and email) of at least 3 professional references to: Dr. Daniel Herms, Search Committee Chair, Department of Entomology, The Ohio State University / OARDC, 1680 Madison Ave, Wooster OH, 44691 (phone: 330-202-3506; fax: 330-263-3686; email: [herms.2@osu.edu](mailto:herms.2@osu.edu)). Review of applications will begin October 15, 2010, and will continue until a suitable applicant is selected.

The Ohio State University is an Equal-Opportunity Affirmative Action Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.