

# IOWA STATE UNIVERSITY

## POSTDOCTORAL RESEARCH ASSOCIATE POSITION: *HONEY BEE VIRUSES AND NUTRITION*

A position for a postdoctoral research associate is available for a collaborative project in the labs of Amy L. Toth, Bryony C. Bonning and W. Allen Miller at Iowa State University. This project will investigate the interaction between pollen nutrition and co-infection with several viruses-of-concern on honey bee health, looking at behavioral, physiological, transcriptomic, and colony level effects.

**Postdoctoral position:** This highly interdisciplinary project will involve apicultural work, lab- and field-based studies of honey bee behavior, physiology, and immune responses, high throughput RNA- sequencing, and bioinformatic and statistical analyses.

**Qualifications:** Applicants should have completed the PhD before/around spring 2012. Those with previous experience working with honey bees, experience with molecular biology techniques, behavioral research, and bioinformatic analysis are especially encouraged to apply.

**Earliest start date:** February 15, 2011. Funding is available for up to three years. Salary will be in the range of \$40,000 depending on qualifications and experience.

**Environment:** Iowa State University is a top research institution in the biological sciences, and recently established the Virus-Insect Interactions group (see <http://www.ent.iastate.edu/cvii/>). Outstanding nucleic acids, protein, microscopy, plant transformation and other biotechnology facilities are available. The diverse faculty has strengths in both basic and applied research, and strong collaborative and interdepartmental interactions. Ames, Iowa combines a relaxing, safe, clean, friendly small town environment with the intellectual stimuli expected of a world-class university community.

More information about the host departments and university can be found at the following websites:

<http://www.eeob.iastate.edu/>

<http://www.ent.iastate.edu/>

<http://www.plantpath.iastate.edu/>

<http://www.iastate.edu/>

**Application:** Send a complete CV, name and contact information for two references, and a short statement of interests (PREFERABLY IN A SINGLE PDF DOCUMENT BY EMAIL) **by February 1, 2012** to:

Dr. Amy L. Toth, Department of Ecology, Evolution, and Organismal Biology, 253 Bessey Hall, Ames, IA 50011, USA, Email: [amytoth@iastate.edu](mailto:amytoth@iastate.edu) Web site: [http://www.public.iastate.edu/~amytoth/Toth\\_lab/](http://www.public.iastate.edu/~amytoth/Toth_lab/)

and cc.

Dr. Bryony C. Bonning, Department of Entomology, Iowa State University, 418 Science II, Ames, IA 50011-3222, USA, E-mail: [bbonning@iastate.edu](mailto:bbonning@iastate.edu), Web site: <http://www.ent.iastate.edu/dept/faculty/bonningb/>

Dr. W. Allen Miller, Department of Plant Pathology, Iowa State University, 351 Bessey Hall, Ames, IA 50011, USA, E-mail: [wamiller@iastate.edu](mailto:wamiller@iastate.edu), Web site: <http://www.public.iastate.edu/~wamiller/>  
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# IOWA STATE UNIVERSITY

## POSTDOCTORAL RESEARCH ASSOCIATE POSITION: *WASP MATERNAL BEHAVIOR AND GENOMICS*

A position for a postdoctoral research associate is available for a collaborative project in the labs of Amy L. Toth at Iowa State University and Robert L. Jeanne at the University of Wisconsin. The project will investigate the epigenetic, transcriptomic, and behavioral impacts of a maternal behavior during *Polistes* wasp caste development. We will study the influences of antennal drumming, a vibrational signal produced by foundress wasps, on development, behavior, and gene regulation in offspring.

**Postdoctoral position:** This highly interdisciplinary project will involve field collections of paper wasps in Iowa, lab rearing and experimental manipulation of colonies, behavioral observations, high throughput RNA-sequencing, bisulfite-sequencing, and bioinformatic and statistical analyses.

**Qualifications:** Applicants should have completed the PhD before/around spring 2012. Those with previous experience in molecular biology techniques, behavior, bioinformatics, and/or entomology (especially social insects) are especially encouraged to apply.

**Earliest start date:** April 1, 2011. Funding is available for up to three years. Salary will be in the range of \$40,000 depending on qualifications and experience.

**Environment:** The bulk of the work will take place at Iowa State University in Ames, Iowa. Iowa State University is a top research institution in the biological sciences. Outstanding nucleic acids, protein, microscopy, plant transformation and other biotechnology facilities are available. The diverse faculty has strengths in both basic and applied research, and strong collaborative and interdepartmental interactions. Ames, Iowa combines a relaxing, safe, clean, friendly small town environment with the intellectual stimuli expected of a world-class university community.

More information about the host department and university can be found at the following websites:

<http://www.eeob.iastate.edu/>

<http://www.iastate.edu/>

**Application:** Send a complete CV, name and contact information for two references, and a short statement of interests (PREFERABLY IN A SINGLE PDF DOCUMENT BY EMAIL) **by February 1, 2012** to:

Dr. Amy L. Toth, Department of Ecology, Evolution, and Organismal Biology, 253 Bessey Hall, Ames, IA 50011, USA, Email: [amytoth@iastate.edu](mailto:amytoth@iastate.edu) Web site: [http://www.public.iastate.edu/~amytoth/Toth\\_lab/](http://www.public.iastate.edu/~amytoth/Toth_lab/)

and cc.

Dr. Robert L. Jeanne, Department of Entomology, 546 Russell Labs, 1630 Linden Drive, Madison, WI 53706, Email: [rjeanne@wisc.edu](mailto:rjeanne@wisc.edu), Web site: <http://entomology.wisc.edu/~jeanne/>

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