

## Postdoctoral position in honey bee virus – behavior interactions

The Department of Entomology of the University of Illinois Urbana-Champaign seeks a Postdoctoral Research Associate as part of a funded project to study the behavioral effects of virus infection and immunostimulation on honey bee behavior and disease transmission.

The goal of this highly interdisciplinary project is to understand how virus infection and immunostimulation affect pathogen transmission due to intra and inter-colony honey bee behavior and to elucidate the molecular regulation of these behaviors. Research approaches will include apiculture, lab- and field-based studies of honey bee behavior, measurements of physiology and immune responses, production and quantification of honey bee viruses, high-throughput RNA-sequencing, and bioinformatic and statistical analyses. Part of this project will also involve executing experiments using an automated behavioral monitoring system that uses machine learning algorithms to track behavior.

The project is run from the Dolezal lab in collaboration with Gene Robinson (UIUC), Colin Brent (USDA-ARS), and Bryony Bonning (U. Florida). A successful candidate will be able to work collaboratively as part of a group across labs and institutions.

Applicants should have completed the PhD before/around spring 2019. Those with previous experience working with honey bees, molecular biology techniques, genomics, behavioral research, and bioinformatic analysis are especially encouraged to apply.

### Required Qualifications:

- A Ph.D. or the equivalent in biology, entomology, or related field
- Experience with laboratory and field work, particularly with animal behavior, gene expression profiling, and RNAseq
- Strong English writing and oral communication skills
- Strong organizational skills
- Ability to work in a collaborative environment

Strong candidates will also possess the following attributes:

- Knowledge or interest in apiculture
- A proven record of publishing research
- Experience with insect behavior, molecular biology, bioinformatics
- Strong statistical and mathematical skills
- Experience with method development
- Creativity, independence, and the desire to learn

The position is available for up to three years, however annual renewal is dependent on funding and progress made by the individual. This position includes a competitive salary and full benefits.

**Application:** Email a single pdf file with “PD application – bee virus” in the subject line containing 1) a statement of research experience, interests and career goals, 2) curriculum vitae including complete publication list, 3) names, e-mail addresses and telephone numbers for three references to: Adam Dolezal; [adolezal@illinois.edu](mailto:adolezal@illinois.edu) You can find out more about the lab at <https://publish.illinois.edu/DolezalBeeLab>

Review of applications will occur on February 22, 2019