

Postdoctoral position in honey bee microbe interactions

The lab of Adam Dolezal in the Department of Entomology at the University of Illinois Urbana-Champaign seeks a Postdoctoral Research Associate as part of a funded project to study how the honey bee microbiome interacts with other environmental factors to affect honey bee health, physiology, and behavior.

This work involves collaborating with a diverse group of researchers within the NSF-Funded Genomics and Eco-evolution of Multi-Scale Symbioses (GEMS) Institute. The GEMS institute (<https://symbiosis.illinois.edu/>) is a collaboration between researchers from UIUC, Indiana University, and the University of Chicago. This particular project is a collaboration with Prof. Irene Newton at Indiana University. As such, a successful candidate will be able to work collaboratively as part of a group across labs and institutions.

Research approaches could 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, gut microbiome inoculation and sequencing, and bioinformatic and statistical analyses. The hired researcher will also be encouraged to develop their own research projects within the GEMS institute, especially those that involve collaboration with other labs and working with students.

Applicants should have completed the PhD before/around spring 2022. Those with previous experience with microbiological and molecular biology techniques, genomics, and/or bioinformatic analysis are especially encouraged to apply.

Experience working with bees is useful but not required! The University of Illinois maintains a state-of-the art bee research laboratory, which is staffed by a facility manager that helps facilitate research.

Required Qualifications:

- A Ph.D. or the equivalent in microbiology, entomology, or related field
- 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:

- A proven record of publishing research
- Strong statistical and mathematical skills
- Experience with method development
- Creativity, independence, and the desire to learn

The position is available for up at least two 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 interactions” 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 You can find out more about the lab at <https://publish.illinois.edu/DolezalBeeLab>

Review of applications will begin on Oct 21, 2021.