

# Assistant Professor - Applied Insect Chemical Ecology

Cornell University, New York State Agricultural Experiment Station, Geneva, NY 14456

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**Application Deadline:** December 31, 2017

**Start date:** July 2018

**Website:** <https://academicjobsonline.org/ajo/jobs/10264>

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## Qualifications

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The Department of Entomology at Cornell University seeks to fill a tenure-track position in applied insect chemical ecology at the Assistant Professor level to be located at Cornell University's NY State Agricultural Experiment Station in Geneva, NY. Insect chemical ecology plays a pivotal role in multiple disciplines, including evolutionary biology, behavior, and neurobiology, and underpins highly successful methods to control agricultural, invasive, and medical/veterinary pests. This field is currently being transformed by a greater awareness of the depth of interactions among insects (intra- and interspecific) and plants and microbes. The use of plant volatiles and contact chemicals in applied agricultural practices presents a rapidly growing and exciting avenue for future research and implementation. Tremendous advances in techniques for chemical analysis as well as genomic information (plant, animal, and microbes) allows for an opportunity to develop new applications to agriculture. We are particularly interested in candidates with expertise in one to several sub-areas of chemical ecology coupled with strong motivation to develop implementable pest management tools to address relevant pest problems facing the NY horticulture industry.

A Ph.D in entomology or related discipline with a strong background and working knowledge of the methods and instrumentation used for collection and analysis of biologically relevant chemicals. A commitment to agriculture and to the development of multidisciplinary team-based research and extension programs is essential.

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## Description

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**Research** (60%) – The successful candidate is expected to establish an internationally recognized research program in insect chemical ecology and pest management, using a combination of chemical, genomic or neurobehavioral approaches to investigate the interactions between insects, plants, and microbial agents and develop, supported with field evaluations, the findings into applied control strategies relevant to horticultural crops in New York.

**Extension** (40%) – The successful candidate will provide leadership in translating information on the use of insect, plant, and microbe-produced volatile chemicals and contact chemicals for pest management of horticultural crops using multiple modes of communication including extension presentations, newsletter and trade-journal articles, webinars and field demonstrations. We anticipate that the candidate will work closely with other specialty-crops faculty to identify their initial commodity focus.

**Teaching** - There is no formal teaching assignment with this position though there is an expectation that the successful candidate will contribute guest lectures in the popular chemical ecology class taught each spring semester.

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## Application Materials

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Applicants must upload into Academic Jobs online a letter of application, curriculum vitae, selected reprints, academic transcripts, and a statement of research goals and plans. Applicants should also arrange to have three confidential letters of recommendation submitted through Academic Jobs online:

<https://academicjobsonline.org/ajo/jobs/10264>.

Submit applications and further questions to:

Inquiries may be directed to:

Dr. Greg Loeb  
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Geneva, NY 14456  
Email: [gme1@cornell.edu](mailto:gme1@cornell.edu)