



The University of Georgia

Graduate Research Opportunity Biological and Agricultural Engineering

I am seeking a Masters or PhD level student to develop chemical detection methods using the highly sensitive olfaction system of insects. Assistantship is available starting Summer 2009. Several research projects are possible including:

- Development of mathematical algorithms to predict insect behavior from sensory stimuli
- Development of robotic “insect” to determine the basis of animal behavioral response to sensory stimuli.
- Examine development of an interface between insect organisms and electronic measurement system to detect volatile chemicals
- Detection of volatiles associated with peanut plants using insect sensors

Refer to the following publication for further information:

Rains, GC, Tomberlin, JK, Kulasiri, D. 2008. Using Insect Sniffing Devices for Detection. *Trends in Biotechnology*, Vol. 26(6): 286-294.

If interested and need more information, please contact Dr. Glen Rains, Associate Professor PhD, PE:

e-mail - grains@uga.edu
Phone – 229-391-3735