



UNIVERSITEIT • STELLENBOSCH • UNIVERSITY
jou kennisvenoot • your knowledge partner

PhD position

Department of Conservation Ecology and Entomology
Stellenbosch University, SOUTH AFRICA

We invite applications for a **PhD in Entomology** in the above-mentioned Department. The position is available from January 2020 or as soon as possible thereafter and is a full-time position. A bursary is available for three years, depending on research progress. The details are as follows:

Project title: DISPEST: Redefining DISpersal potential for adequate fruit fly PEST management (Diptera, Tephritidae)

Background and Objectives:

Ceratitis rosa and *C. quilicii* (Diptera, Tephritidae) are two important and closely related agricultural pests occurring throughout South and East Africa. This project aims at providing relevant information for the development of specific control strategies for these two species. We aim at collecting novel distribution, host preference and population genomic data and, using an innovative approach, at modelling their intraspecific patterns of connectivity and invasion routes. Through this project we will

- generate predictions of the most likely dispersal pathways by modeling existing and newly collected trapping, fruit rearing and population genomic data
- generate landscape connectivity maps for South Africa and Mozambique
- infer appropriate management units and provide information on spatial prioritization
- indicate areas suitable as Pest Free Areas (PFAs) and Areas of Low Pest Prevalence (ALPP)

Requirements:

- MSc in Entomology or Zoology or equivalent
- Prior experience in Applied Entomology
- Strong background in genetic techniques
- Good analytical and practical skills
- Valid driver's license

Please submit your curriculum vitae with the names of two referees, academic record and a short (one page) description of your research interest and/or previous research experience to:

Dr Pia Addison (pia@sun.ac.za)

Dept of Conservation Ecology and Entomology
Stellenbosch University
SOUTH AFRICA

Tel: + 27 21 808 4671

Fax: +27 21 808 4807

Website: <http://www.cons-ent.com>



Deadline: 31 December 2019