



Postdoctoral Research Fellowship in Polyphagous Shot-Hole Borer landscape genomics and dispersal ecology

**Stellenbosch University
2020-2021**

A fully-funded postdoctoral research fellowship is available immediately

Project title: Fine-scale landscape genomics for estimating dispersal in PSHB

Scope of Research: This collaborative project, based primarily at Stellenbosch University, seeks to develop genome-wide SNPs for determining individual relatedness at a fine geographic scale to allow dispersal of PSHB to be estimated with high precision. The project will also examine aspects of dispersal and the environmental dependence thereof and relate this to stress responses at the whole animal level.

Requirements: A PhD in entomology, genomics or evolutionary biology or a related subject field is required. A PhD obtained within specific time-frame (must have graduated within the last 10 years (international applicants) or 5 years (for SA citizens) at time of application). The candidate should have an excellent academic track record, experience working with these or closely related species in an applied and basic science context, evidenced by high quality peer-reviewed publications. The candidate should be capable of working independently and in a team, have a proven track record of publishing research on genomics, applied or evolutionary biology aspects of invertebrates and a strong background in ecology. Strong language skills will be an advantage. The candidate should be able to perform analyses in R and STACKS.

Good interpersonal skills and communication are required. Candidates must meet the minimum entry requirements for study at the postdoctoral level at Stellenbosch University. International candidates must meet visa regulations. A valid driver's license and willingness to travel nationally and internationally is essential.

Commencement of duties: February 2020 or as soon as possible thereafter

Closing date: 10 Jan 2020

Project duration: 2 years (Note: Year 2 funding is dependent on excellent progress)

Remuneration: competitive funding is available at standard rates, tax free, and according to SU and SARS policy and regulations.

Enquiries: Prof. John S. Terblanche (jst@sun.ac.za) or Prof. Francois Roets (fr@sun.ac.za)

<http://insectphysiological ecology.org/>

APPLICATION PROCESS:

Send before the closing date:

- 1) a letter of application/motivation outlining fit to project, accompanied by
- 2) a comprehensive *curriculum vitae*, including list of academic publications;
- 3) two best papers (as pdfs), and;
- 4) the names and contact details of at least two referees;
- 5) Applicants should also request that 2 independent academic referees forward confidential letters by the closing date directly to the same email address.