Position Summary
The Postdoctoral Research Associate will conduct bioinformatics, laboratory and field research in the area of conservation genomics as part of ARC Linkage Project LP180100721, and assist in the supervision of honours and postgraduate research students as required. This is a collaborative project between the University of New South Wales, Royal Botanic Gardens Sydney and the Australian National University to develop approaches for the conservation of plant species that are threatened by a fungal pathogen (Austropuccinia psidii, the cause of myrtle rust). Techniques involved include but are not limited to field collection of plant material, DNA extraction, plant growth experiments, execution of software for bioinformatic and statistical analyses.

The role of Postdoctoral Research Associate reports to Dr Richard Edwards, and has no direct reports.

Accountabilities
Specific accountabilities for this role include:

- Conduct bioinformatics, laboratory and field research in the area of conservation genomics as part of the ARC Linkage Project.
- Contribute to the writing of scientific papers and reports for international journals and progress reporting to other researchers and industry partners.
- Maintenance of electronic lab book to enable transparent and reproducible research.
- Interact with research collaborators at partner organisations (RBG and ANU).
- Data management and archiving via research filestore and UNSE Data Archive.
- Design experimental studies and assist in the preparation and submission of publications.
- Upload and manage data at the National Center for Biotechnology Information.
- Contribute to the preparation of research proposal submissions to external funding bodies.
• Co-supervise honours or postgraduate research projects.
• Offer expert advice and supervision to honours and postgraduate students engaged in research.
• Assist in the day to day operations of the group, including assistance with purchasing, data management, compliance with health and safety guidelines and other regulatory requirements.
• Attend meetings associated with research or the work of the laboratory and any other research related duties as directed by the supervisor.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
• Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience
• PhD in population genetics or related area.
• Demonstrated research experience in sequence analysis and data integration with strong computational skills. Familiarity with genomics analysis, Linux-based bioinformatics and data analysis in R is desirable.
• Demonstrated track record of publications and conference presentations relative to opportunity.
• Demonstrated ability to conduct independent research with limited supervision.
• Demonstrated experience in population genomic or landscape genomics research.
• Demonstrated experience with research linking genomic data to organismal traits or environments, especially for non-model organisms.
• Demonstrated experience conducting field work for biodiversity research.
• Demonstrated experience in data management.
• Proven ability to work in a highly collaborative team, including across disciplines, and build effective relationships.
• Strong interpersonal skills with demonstrated ability to communicate and interact with a diverse range of stakeholders and students in multiple formats. A Strong track record of publications relative to opportunity is desirable.
• An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.
• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

About this document
This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.