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## POSITION DESCRIPTION

# Statistical consultant

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Position Level	A/B
Faculty/Division	DVC-Research
Position Number	00042390
Original document creation	February 2022

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### Position Summary

The Statistical consultant will contribute to the main objective of Stats Central, to build the statistical capacity of UNSW researchers and research students, by: advising on or leading study design, analysis and communication of results; developing and running regular professional development workshops and seminars; and building and maintaining strong relationships to facilitate interdisciplinary research.

Stats Central is a team of eight statisticians offering UNSW researchers support and training in study design and analysis, as part of the university's 2025 Strategy. It is based in the Mark Wainwright Analytical Centre in the Division of Research and Enterprise, a centralised unit that manages major research infrastructure at UNSW and provides relevant technical and consulting expertise.

The role of Statistical Consultant reports to the Senior Statistical Consultant and Director of MWAC, with dotted line reports to the Director of Stats Central.

### Accountabilities

#### Level A

- Provide high level statistical and research design advice and support
- Deliver introductory statistics short courses to applied researchers and assist in development of these courses
- Conduct and advise on statistical design and analysis for research projects at UNSW via Stats Central
- Document all analytical procedures for projects
- Advise researchers on statistical aspects of grant proposals and journal article submissions
- Contribute to the preparation of research applications for new funding and engage as a collaborator in larger scale research
- Develop and maintain strong relationships with stakeholders to facilitate interdisciplinary research programs and partnerships
- Assist in training and supervision of research assistants/students on various projects
- Co-ordinate and contribute to statistics seminars

- 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

#### **Level B (in addition to Level A duties above)**

- Develop introductory statistics short course materials for applied researchers
- Jointly supervise and assist with the mentoring of students and staff as appropriate
- Lead methodological research in Statistics arising from consulting problems
- Develop collaborations in larger scale research

### **Skills and Experience**

#### **Level A**

- A PhD in Applied Statistics or related discipline
- Proven experience with advanced statistical techniques including multi-level and hierarchical modelling, non-normal data, survival analysis, time series, data imputation methods and meta-analysis.
- Demonstrated ability to meet project requirements and deadlines and at a high level with minimal supervision
- Proven ability to work effectively as a member of a team, and the capacity for independent decision-making using initiative
- Capacity to establish and manage consultative, productive relationships with researchers from different backgrounds and to communicate statistical concepts clearly to non-statisticians
- Ability to provide effective statistical mentoring to research staff and students
- Ability to develop statistical methodology or statistical software applications, and to write code in multiple statistical packages
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training

#### **Level B (in addition to Level A criteria above)**

- Proven ability and experience in working in a statistical consulting role, and reviewing research grants and journal articles
- Demonstrated ability to provide independent scientific and statistical leadership, and the capacity to review research proposals critically
- Demonstrated ability to effectively instruct applied researchers on statistical techniques in a short course setting, and develop materials for short courses
- A strong inter-disciplinary publication record including publications in statistical methodology journals

#### **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.