POSITION SUMMARY

The Office of Medical Education is undertaking a project to develop standards-based assessment in the Medicine program. The psychometrician/data analyst will be responsible for analyses of test and item data to inform the development of performance-standards and determine appropriate standard-setting methods.

ORGANISATIONAL ENVIRONMENT

Overview of the Faculty/School/Divisional Work Unit

UNSW Medicine is a national leader in learning, teaching and research, with close affiliations to a number of Australia’s finest hospitals, research institutes and health care organisations. With a strong presence at UNSW Kensington campus, the faculty have staff and students in teaching hospitals in Sydney as well as regional and rural areas of NSW including Albury/Wodonga, Wagga Wagga, Coffs Harbour and Port Macquarie.

The Office of Medical Education is an administrative unit within UNSW Medicine responsible for curriculum development, evaluation, professional development and research in medical education. The Office is staffed by academics with expertise in medical education and also appoints casual and part-time academic staff to support teaching in the Faculty.

The Medicine Standards-based Assessment Project aims to extend the Medicine program’s development of standards-based assessment beyond learning outcomes. The project will deliver an approach for elucidating the conceptual framework for the development of outcomes; aligning the development of outcomes to the curriculum; defining performance levels based on the underlying framework; equating assessment scores to performance levels; and measuring growth.
Statistics
The Medicine program is the principal teaching activity of UNSW Medicine. There are approximately 1,600 students enrolled in the Medicine program and there are more than 1,000 members of staff in the Faculty. The Faculty’s academic work occurs from 9 schools located on Kensington and hospital campuses throughout metropolitan and rural areas.

Reporting Relationships

Supervisor’s title: Professor Philip Jones

Other positions reporting to the supervisor:
- Director, Medical Education Research
- Chair and Foundations Course Convenor
- Quality of Medicine Convenor
- Program Evaluation and Improvement Convenor
- Clinical Skills and Clinical Transition Course Convenor
- Manager, Learning Resources
- Support Officer, Learning Resources

Positions reporting to this position: None

KEY DUTIES & RESPONSIBILITIES

- Provide professional expertise on the statistical and psychometric techniques and methodologies involved in the accurate scoring, analysis, and reporting of assessment data.
- Undertake complex analyses of assessment data using appropriate measurement models including Rasch and latent class models.
- Produce test and item reports for academic staff to support the development of performance-standards and standard-setting activities.
- Consult with content/discipline experts to review and develop assessment items to ensure these provide appropriate information for summative judgements and for providing feedback to students and the curriculum.
- 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.

SELECTION CRITERIA

- A Bachelor degree in educational measurement, statistics or a closely related field and either research Master degree or experience in educational assessment /measurement.
- Experience with assessment data analysis including Rasch analysis (RUMM) and latent class models (Mplus).
- Competence in the use of SPSS, Excel and other Microsoft Office Suite programs.
- Demonstrated written and verbal communication skills, including reporting and presentation of statistical information.
• Demonstrated ability to work independently and as part of a team.
• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.