Position description

Position title: Psychometrician  
Position no.: AR48

Business unit: Assessment and Reporting  
Classification: P4

Reports to: Lead Psychometrician  
Duration of contract: Ongoing

Location: Sydney  
FTE: 1.0

**Position overview**

The primary purpose of this position is to provide expert advice to the ACARA’s Research and Development team and the lead psychometrician in relation to the development delivery and reporting of the National Assessment Program. The psychometrician will also be responsible for conducting assigned statistical and qualitative analysis, providing expert measurement advice and managing the quality assurance in National Assessment Program Literacy and Numeracy (NAPLAN). Further to this, as an educational measurement expert, the psychometrician is expected to conduct independent research and act as a mentor for other team members, supporting their professional development and giving technical leadership to team members in delivering project.

**Core accountabilities**

1. comply with and promote WHS practices, policies and procedures and conduct work in a safe manner
2. commit to, promote and model ACARA’s policies including those relating to equity, diversity and sustainability in addition to ACARA’s Values and Code of Conduct
3. participate in and promote the performance and recognition program, including setting objectives, tracking objectives and appraising outcomes
4. work collaboratively within the business unit and across the organisation to promote communication and information sharing

**Key accountabilities**

The key accountabilities of this position are to:

1. provide support and expert advice to the Lead Psychometrician in the provision of accurate information on test design, construction, equating and calibration
2. provide expert technical advice on the application of modern measurement models in the analysis and reporting of students performance in the NAP
3. support and contributes to all aspects of project management and quality assurance processes in relation to data collection, psychometric and statistical analysis implemented in NAP.
4. develop briefing papers on assessment, measurement and reporting issues, as required
5. conduct original research that is in accord with ACARA Charter and work priorities and that will strengthen and enhance ACARA’s education leadership standing
6. maintain up-to-date knowledge of significant developments in psychometric theory and practice and participate in relevant presentation at conferences and similar forums.
Skills, experience and knowledge (key selection criteria)
To be considered for this role candidates must be able to demonstrate they have:

1. highly developed advisory and research skills and extensive experience in analysing large scale assessment data using Rasch Model, Item Response Theory, and modern statistical theory methods.

2. highly developed ability to research, analyse and validate measurement and reporting data using electronic statistical software (such as ConQuest, RUMM, SPSS, R, STATA)

3. the ability to provide high level and highly expert advice to inform decision making, program quality controls and strategic planning including but not limited to authoring of technical reports and/or scientific publications and presentations

4. demonstrated project or program implementation and management and skills.

5. the ability to work collaboratively within and across the Assessment business group and wider organisation experience mentoring others to assist in building organisational capability

6. outstanding oral and written communication and interpersonal skills sufficient to establish and maintain regular and effective consultation, networking, liaison and representation across the organisation

7. suitable tertiary qualifications, including post-graduate level studies, commensurate with the technical and expert nature of the role; Ph.D. in psychometrics or statistics preferred.

Dimensions of the role
Number of direct and indirect reports: 0
Financial delegations: 0
HR delegations: 0

Important relationships

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<th>Internal:</th>
<th>External:</th>
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<tbody>
<tr>
<td>ACARA communication and media personnel</td>
<td>Jurisdictional and cross-sectoral educational representatives</td>
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<tr>
<td>Managers, reporting and other ACARA personnel</td>
<td>Educational institutions’ representatives</td>
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General manager / CEO approval

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