

January 2010

## **Simulations Specialist/Psychometrician**

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### **POSITION SUMMARY:**

This position is primarily involved in research and development activities, designed to enhance the psychometric quality and integrity of ABIM computer-based performance assessment products. This position provides expertise in development of new performance assessments and enhancements to current products such as the addition of multimedia. A core value is to assure that new or enhanced assessments maintain the highest possible validity. The position reports to the Director of Psychometric Operations Research.

### **PRINCIPLE DUTIES AND RESPONSIBILITIES:**

- ! Lead projects developing new assessment products that may include multimedia, medical case simulation, and high-fidelity simulations
- ! Coordinate work with expert physicians and staff from other departments to design new assessments
- ! Provide mentoring support to staff on psychometric issues, particularly new assessment methodology
- ! Maintain currency with developments in the psychometric field, especially other large scale testing programs.
- ! Collaborate on research and development projects within and across departments as well as with external organizations
- ! Prepare internal technical reports and background/discussion papers related to assigned projects
- ! Author manuscripts in peer-reviewed journals; present scholarly research at professional meetings and to those outside the testing community

### **KNOWLEDGE, SKILLS, AND ABILITIES:**

- ! Strong foundation in psychometrics, including latent trait models
- ! Understanding of test development, including cognitive aspects
- ! Strong background in research design, methodologies, and analytical procedures/statistical analysis
- ! High level of proficiency with statistical software packages (e.g., SAS)
- ! Strong understanding of innovative assessments (e.g., simulations, multimedia)
- ! Strong understanding of classification testing
- ! Excellent verbal and written communication, planning, analytical, and problem-solving skills
- ! Ability to prioritize tasks, meet deadlines and work both independently and as part of a team.
- ! Ability to lead group processes
- ! Excellent interpersonal skills
- ! Willing to travel as needed to perform job functions

### **TRAINING AND EXPERIENCE:**

Ph.D. in measurement or a related field

Two years professional experience in performance assessment