**Psychometrician/Senior Psychometrician (open rank)**

**Our Organization**

We are a medical specialty certifying board serving anesthesiologists. Since 1938, we have been administering certification exams and today we take an innovative approach to continuing certification and learning. We foster practice standards that instill confidence and trust that board-certified anesthesiologists have the knowledge and skills to provide high-quality patient care. We are dedicated to elevating expertise in an evolving profession. Our mission is to advance the highest standards of the practice of anesthesiology. We work together with physician anesthesiologists to ensure they provide the best care possible for every patient, every day.

**Position Description**

**Reports to:** Director, Psychometrics & Research

This position is responsible for all psychometric activities related to the accurate and timely scoring and reporting of American Board of Anesthesiology (ABA) examinations and assessments. This position requires strong analytical and organizational skills, in-depth knowledge of ABA policies and procedures, extreme accuracy and strict attention to detail, and strong written and oral communication skills. This position is also responsible for data management, statistical inquiries, report generation, and research activities related to the development of the ABA programs and other initiatives, including but not limited to test development, security, resident tracking, and program performance. This position requires working with multiple other departments within the ABA as well as working with external partners. This position also works closely with the test development department to ensure that examinations are built with high validity, reliability, and defensibility and supports the research activities of the Research Committee.

**Education**

* Ph.D. in psychometrics, educational measurement, educational psychology or other closely related quantitative field.

**Skills**

* Facility with psychometric methods and their applications, particularly item response theory (IRT), multi-facet Rasch modeling, equating, and scaling.
* Well-versed in advanced research methodologies and statistical procedures.
* Working knowledge of R, Python and/or SAS.
* Knowledge of IRT software, equating software, and other key psychometric packages is highly desirable.
* Experience with qualitative research methods and their applications is highly desirable.
* Experience using SQL to query relational database is a plus.
* Ability to set priorities and meet deadlines.
* Demonstrate a commitment to service and continually exhibit a customer service culture.
* Demonstrate dependability for own actions and their consequences, and for the performance of functions and duties of the ABA.
* Excellent written and oral communication skills, excellent interpersonal skills, including the ability to work closely and successfully with individuals from a variety of professional and educational background.

**Experience**

* Minimum of two years of experience in a state or national testing program, preferably in the medical education field.
* Record of publishing in peer-reviewed academic journals is highly desirable.
* Project management experience highly desirable.
* Knowledge of or experience with American Board of Medical Specialties (ABMS) and the Accreditation Council for Graduate Medical Education (ACGME) a plus.

**Specific Responsibilities**

1. Psychometrics

* Performs all scoring, reporting, documentation and psychometric activities for ABA examinations and assessments.
* Conducts standard setting studies.
* Conducts item writing workshop.
* Responds to score verification requests.
* Provides expertise in the examination and assessment development and psychometric activities in general.
* Performs other psychometric services as needed to ensure the success of ABA examinations and assessments.

1. Research

* Conducts research activities of the ABA Research Committee by identifying data needs, performing analysis and writing up publications.
* Assists work for Foundation for Anesthesia Education and Research (FAER)/ABA Research in Education Grant program.
* Contributes to the writing of board meeting agenda items.
* Monitors messages from research opt-out list and research email box.

1. Data Reporting

* Supports the internal and external data reporting needs of the Board.
* Responds to external data requests.

4. Other duties as assigned

**Special Requirements**

* Ability to lift up to 10 pounds on occasion.
* Ability to sit for extended periods of time.
* This position is based at the ABA headquarters in Raleigh, North Carolina (not remote).