General Summary:

The Mass Spectrometry Laboratory is seeking a highly motivated individual with a strong background in metabolomics and quantitative/qualitative analysis by LC-MS/MS preferably using SCIEX instrumentation and data processing techniques, including experience with high dimensional data analysis. Our laboratory is a high complexity CLIA/CAP accredited clinical laboratory, actively engaged in expanding our Precision Medicine program by performing cutting edge clinical diagnostic testing, developing, and validating new assays.

Under the direction of the lab manager and director of Mass Spectrometry, the Senior Clinical Development Technologist has the accountability for the development and implementation of analytical instrument applications, especially liquid chromatography-tandem mass spectrometry. This position requires detailed documentation to meet CLIA and CAP standards. Assists in collection of data, administration of project and writing papers for academic journals, etc. Serves as a technical expert and resource person and provides a timely communication link between staff and leadership. The position actively supports the hospital’s and department’s continuous quality improvement and customer service goals.

Essential Job Functions:

1. Facilitates the development and evaluation of new test procedures and protocols. Works with vendors and technical experts to evaluate instruments and materials during the implementation phase.
2. Assists the lab manager and director in preparing, reviewing, and revising the laboratory's procedure manual.
3. Maintains adequate test development records and helps in the preparation of manuscripts, abstracts, data collection and validation reports.
4. Implements, maintains, evaluates and monitors systems for continuous quality improvement and participates as necessary with the medical and administrative directors.
5. Performs problem solving and troubleshooting on laboratory instrument and test methods independently. Identifies source and nature of test problems and makes appropriate recommendations as to resolution based on test theory and knowledge.
6. Performs highly complex procedures relative to liquid chromatography-tandem mass spectrometry and other technologies according to standardized operating procedures and policies, reports results within established time frame and assures that quality control criteria are met. Will be cross-trained in the lab to assist in other duties as specified by the manager and director.
7. Assists the lab manager and the appropriate lab director in complying with governmental, accreditation, and hospital standards to include CAP, CLIA, CMS, OSHA, and Joint Commission. Monitors compliance with safety procedures. Serves as back-up for CAP inspections.
8. Instructs, trains and ensures competence for high complexity procedures and testing generated from liquid chromatography-tandem mass spectrometry and other instrumentation.
9. Completes competency testing and mandatory and continuing education requirements as defined by the position. Develops, coordinates, assesses and documents competency testing.
10. Maintains knowledge and utilizes resources to provide consultative, educational, technical, and informational services as needed to families, patients, medical and administrative directors, laboratory, medical and nursing staff.
11. Coordinates workflow in the laboratory, establishes priorities and rearranges technologist assignments to ensure timely reporting of results. In the absence of the manager, serves as effective back-up for technical issues.
12. Assists the manager in maintaining inventory control of laboratory supplies including reagents.
13. Performs job functions adhering to service principles with customer service focus of innovation,
service excellence and teamwork to provide the highest quality care and service to our patients, families, co-workers and others.

14. Other job functions as assigned.

**Knowledge, Skills and Abilities:**

1. A BS, MS or PhD degree with an emphasis in analytical chemistry or a related laboratory science is required. Training in mass spectrometry is highly desired.
2. Meets all regulatory requirements for high complexity testing.
3. Possess an excellent command of the English language; medical and scientific terminology is required.
4. Organizational skills: Ability to establish priorities and react promptly to a large variety of requests and needs, sometimes in stressful situations.
5. Five years of experience in a clinical laboratory or a research environment is required with demonstration of progressive acceptable clinical or research laboratory experience.
6. Experience and application of relevant mathematical skills is required. Good computer skills and experience with complex operating software applications is required.
**Age-Specific Competency Requirement:**

☐ All Ages  ☐ Neonatal  ☐ Pediatric  ☐ Adolescent  ☐ Adult  ☒ N/A

Demonstrates the knowledge and skills necessary to provide care appropriate to the ages served on the assigned unit/department, as indicated in the competency skills checklist (i.e., Neonatal, Pediatric, Adolescent, Adult).

**General Understanding and Nature of the Position Description:**

In accordance with the Americans with Disabilities Act, the above statements are intended to describe the general nature and level of work being performed by people assigned to this job classification. These statements are not intended to be an exhaustive list of all responsibilities, duties and skills of personnel so classified.
### PHYSICAL DEMANDS & WORK ENVIRONMENT CLASSIFICATIONS

<table>
<thead>
<tr>
<th>Physical Demands</th>
<th>Tasks / Frequency</th>
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</thead>
<tbody>
<tr>
<td>☐ Sedentary Work</td>
<td>Exertion: May exert up to 10 pounds of force occasionally</td>
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<tr>
<td></td>
<td>Lifting/Carrying: No more than 10 pounds</td>
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<td></td>
<td>Sitting: Required most of the workday</td>
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<tr>
<td></td>
<td>Walking/Standing: Infrequent and limited to ¼ of the workday</td>
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<tr>
<td></td>
<td>Dexterity: Wrist, hand and finger movements required for frequent fine activities including typing</td>
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<tr>
<td>☐ Light Work</td>
<td>Exertion: May exert up to 10 pounds of force frequently and up to 20 pounds occasionally</td>
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<td>Lifting/Carrying: No more than 10 pounds</td>
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<tr>
<td></td>
<td>Sitting: Required most of the time and may include push/pull on arm or leg controls</td>
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<td>Walking/Standing: Significant amount of time (3/4 of workday), occasional stooping.</td>
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<td>Stamina: Job may require a production rate and/or requires constant push/pull at specified rate</td>
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<tr>
<td></td>
<td>Dexterity: Wrist, hand and finger movements required for frequent activities including typing and use of arms and hands to grasp and hold objects</td>
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<tr>
<td>☑ Medium Work</td>
<td>Exertion: 10-25 pounds of force frequently; 20-50 pounds occasionally; up to 10 pounds constantly</td>
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<td>Lifting/Carrying: No more than 40 pounds</td>
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<td>Sitting: Infrequent and intermittent</td>
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<td></td>
<td>Walking/Standing: Frequent</td>
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<td>Stamina: Ability to work continuously in motion performing job duties</td>
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<td></td>
<td>Dexterity: Shoulder, arm, wrist, hand and finger movements required for frequent activities to grasp and hold objects, to move objects and to manipulate instrument and/or tools</td>
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<tr>
<td>☐ Heavy Work</td>
<td>Exertion: 25-50 pounds of force frequently and/or 10-20 pounds of force constantly to move objects; 50-100 pounds of force occasionally</td>
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<tr>
<td></td>
<td>Lifting/Carrying: No more than 100 pounds</td>
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<tr>
<td></td>
<td>Sitting: Infrequent and intermittent</td>
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<td>Walking/Standing: Significant amount of time (3/4 of workday or more); frequent stooping.</td>
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<td></td>
<td>Stamina: Ability to work continuously in motion performing job duties</td>
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<td></td>
<td>Dexterity: Shoulder, arm, wrist, hand and finger movements required for frequent activities to grasp and hold objects, to move objects and to manipulate instrument and/or tools</td>
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<tr>
<td>☐ Very Heavy Work</td>
<td>Exertion: Excess of 50 pounds of force frequently and/or excess of 20 pounds of force constantly to move objects; exerting in excess of 100 pounds of force occasionally</td>
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<tr>
<td></td>
<td>Lifting/Carrying: More than 100 pounds</td>
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<td>Sitting: Infrequent and intermittent</td>
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</tbody>
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<thead>
<tr>
<th>Audio-Visual Tasks / Acuity</th>
<th>Good</th>
<th>Fair</th>
<th>Not Applicable</th>
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<tbody>
<tr>
<td>Hearing</td>
<td>☒</td>
<td>☐</td>
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<tr>
<td>Near Vision</td>
<td>☒</td>
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<tr>
<td>Far Vision</td>
<td>☒</td>
<td>☐</td>
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<tr>
<td>Color Discrimination</td>
<td>☒</td>
<td>☐</td>
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<tr>
<td>Depth Perception</td>
<td>☒</td>
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<thead>
<tr>
<th>Exposures / Frequency</th>
<th>Frequent</th>
<th>Seldom</th>
<th>Not Applicable</th>
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<tbody>
<tr>
<td>Cold/Heat/Dampness</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>Noise/Vibration</td>
<td>☒</td>
<td>☐</td>
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<tr>
<td>Heights</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>Skin Irritations</td>
<td>☒</td>
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<tr>
<td>Lung Irritations</td>
<td>☒</td>
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<tr>
<td>Infectious Diseases</td>
<td>☒</td>
<td>☐</td>
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<tr>
<td>Animals</td>
<td>☒</td>
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<tr>
<td>Latex</td>
<td>☒</td>
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<tr>
<td>Laser</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>Bloodborne Pathogens (blood/body fluid contact)</td>
<td>Regularly</td>
<td>Occasionally</td>
<td>Not Applicable</td>
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