ARABIAN GULF UNIVERSITY

Job Title: Biochemical Genetics Laboratory Technician/Technologist

Department: College of Medicine & Health Sciences - AL-Jawhara Center – Biochemical Genetics Laboratory

Reporting to: Laboratory Head

Job Summary

The Biochemical Genetics Laboratory Technologist/Technician performs analytical and diagnostic procedures related to biochemical genetics, including enzymatic, metabolic, and molecular biochemistry testing. The role supports diagnosis of metabolic disorders, newborn screening, and genetic disease evaluation, ensuring accuracy, reproducibility, and compliance with CAP standards.

Key Responsibilities

- Receive, verify, and process patient samples according to SOPs.

- Assess sample integrity and suitability for biochemical and molecular assays.

- Follow proper storage and chain-of-custody procedures.

- Perform metabolic and biochemical genetic tests including:

    o Tandem mass spectrometry (MS/MS)

    o HPLC, GC-MS

    o Spectrophotometric assays

    o Enzyme activity assays

    o Amino acid and organic acid profiling

    o Hormone and biomarker assays

- Participate in internal and external QA/QC programs.

- Maintain accurate records and logs in the LIMS system.

- Ensure compliance with CAP standards.

- Perform routine instrument calibration, validation, and troubleshooting.

- Validate analytical results before release.

- Prepare technical notes and instrument reports for supervisor review.

- Assist in preparation of laboratory SOPs.

- Follow biosafety, chemical safety, and waste disposal regulations.

- Participate in competency assessments and ongoing training.

Job Requirements

- Bachelor's degree in Biochemistry, Molecular Biology, Genetics, Medical Laboratory Science, or related field.

- And MSc degree in Clinical Biochemistry

- Minimum of Four (4) years' experience post specialty (for non- Bahraini)

- Experience working in CAP-accredited laboratory. (preferred)

- Experience with newborn screening platforms. (preferred)

Competencies

- Good communication and interpersonal skills

- Relevant computer proficiency; experience in using Microsoft Office tools and/or any relevant software.

- Strong analytical and troubleshooting skills.

- Ability to work under pressure with high sample volumes.

- Excellent communication and teamwork abilities.