Job Title: Cytogenetics Laboratory Technician/Technologist

Department: College of Medicine & Health Sciences - AL-Jawhara Center - Cytogenetics Laboratory

Reporting to: Laboratory Head

Job Summary

The Cytogenetics Diagnostic Laboratory Technologist is responsible for performing cytogenetic and molecular cytogenetic testing, including specimen preparation, culture, chromosome analysis, and fluorescence in situ hybridization (FISH) from prenatal, postnatal and oncology samples. The technologist work shall ensure accurate and timely reporting of results to support patient diagnosis and treatment, while maintaining compliance with international accreditation standards.

Key Responsibilities

- Perform specimen processing, culture initiation, harvesting, slide preparation, and staining for karyotyping.
- Conduct chromosome banding, karyotyping, and digital image analysis using cytogenetics software.
- Perform FISH testing with appropriate probes and document results.
- Maintain laboratory records, worksheets, and electronic data entry in LIMS.
- Follow SOPs and quality assurance procedures to ensure accurate results.
- Participate in laboratory quality control, audits, and accreditation compliance.
- Maintain laboratory equipment and report technical issues.
- Collaborate with colleagues and communicate with supervisors regarding urgent cases.
- Follow biosafety and infection control standards at all times.

Job Requirements

- Bachelor's degree in Medical Laboratory Science, Genetics, or related field (minimum).
- Master's degree in Medical Genetics, Cytogenetics, Biotechnology, or related field (required).
- Professional certification/licensure (ASCP, HCPC, EBMG, or national equivalent) (preferred).
- Minimum 2–3 years' practical experience in cytogenetics laboratory. (preferred)

Competencies

- Strong attention to detail and accuracy.
- Ability to follow SOPs and maintain high-quality work under pressure.
- Good teamwork and communication skills.
- Commitment to continuous learning and skill development.