

## **ROLES/RESPONSIBILITIES**

Job Title: Research Lab Technician	Department: SAS-Chemistry and Physics
Reporting To: HoD Chemistry / Physics	Position(s) Supervised: NIL
Employment Type: Permanent	No. of Positions: 1
<b><u>Position Summary (SAS Research Lab Technician (Physics &amp; Chemistry))</u></b>	
<p>Research Lab technician have required technical support with a solid background in Master of Science (MSc Physics &amp; Chemistry) with minimum research experience due to much of their daily work will address physics, chemistry, electronics, physiology and interdisciplinary areas. Therefore, fare knowledge in understanding these subjects is a pre-requisite, having a passion for setup of fantastic experimental design in the laboratory to function effectively (specimens/sampling, testing, measuring, recording, results analysis). Apartment from this, carrying out lab procedures, concentrate and perform more complex analytical processes, analyzing test results and working pleasantly with colleagues. Ensure that keep equipment area in a clean, serviceable condition and the safely waste removal in the laboratory. Make sure to follow up personal safety, strict safety procedures and safety instructions in the labs. Ensure that the laboratory is well-stocked &amp; maintained that everything is clearly labelled. The capabilities involving technical science expertise can enhance the reliability and efficiency in the laboratory setups.</p>	
<b><u>Duties/Responsibilities</u></b>	
<ul style="list-style-type: none"><li>● Perform laboratory tests in order to produce reliable and precise data to support scientific investigations.</li><li>● Carry out routine tasks accurately and following strict methodologies to carry out analyses, prepare specimens and samples.</li><li>● Construct, maintain and operate standard laboratory equipment, for example ultrasonicators, weighing machines, centrifuges, pipetting machines and pH meters, fume hoods etc.</li><li>● Ensure that keep equipment area in a clean, serviceable condition and the safely waste removal record in the laboratory and sometimes interpret, results to present to senior colleagues.</li><li>● Make sure to follow up personal safety, strict safety procedures and safety instructions in the labs.</li><li>● Use computers and perform mathematical calculations for the preparation of graphs.</li><li>● Ensure the laboratory is well-stocked everything is clearly labelled.</li><li>● Keep up to date with technical developments, especially those which can save time and improve reliability.</li><li>● Conduct searches on identified topics relevant to the research.</li><li>● Prepare materials and assemble, disassemble, clean and store equipment needed for individual and group laboratory experiments.</li><li>● Store and dispose of hazardous wastes using safety procedures and to assist faculty, scholar and staff for conducting experiments.</li><li>● Follow methodologies in carrying out routine tasks/ experiments and maintain lab records in an organized, accessible fashion.</li><li>● Maintain inventory system of all science supplies and special equipment. To coordinate purchasing of all science supplies and coordinate maintenance of laboratory equipment (service or replace).</li><li>● Make appropriate recommendations for cost effective utilization of allocated resources/ chemicals etc.</li></ul>	

- Maintain a reference library of scientific catalogs, instruction manuals, keys, troubleshooting guides and operation and parts manuals for laboratory equipment and models as requested.
- Perform assigned responsibilities, duties, and tasks according to established practices, procedures, techniques, and standards in a safe manner and with minimal supervision.
- Make sure all glassware and equipment is clean and ready for use. Make laboratory solutions of specific concentrations for daily use or as required. Test the replacements as appropriate.
- Maintain Stock, Breakage, issue of components register and all other lab related documents.
- Maintain Purchase Equipment receiving file's
- Enforce lab policies, practices, and safety standards

**Educational Qualification(s):**

Candidates with first class in M.Sc. in Chemistry/Physics/Applied Physics/ Electronics.  
Essential: Graduation with Chemistry as one of the subject / B.Sc (Chemistry)  
Preferable: Relevant experience in the field with research expertise.

**Key Skills:**

- Good English Communication Skills
- Good Microsoft Office Skills
- Teamwork skills and patience
- The ability to learn specific, practical techniques and apply this knowledge to solve technical problems
- Good hand-eye coordination, to use technical equipment with accuracy
- The ability to maintain and calibrate technical equipment
- Time management skills to work on several different projects at once
- Flexibility for working with and providing support to a number of people

**Work Experience:**

- Minimum One-year experience as Physics and Chemistry Lab Assistant for UG/PG courses in setting of laboratory is preferable.