



CITY AND ISLINGTON
COLLEGE

JOB DESCRIPTION AND PERSON SPECIFICATION

A. POSITION DETAILS

TITLE OF POST: Laboratory Scientist (Student)

RESPONSIBLE TO: Daniella Plummer

SALARY: Voluntary - FREE

B. Roles

As a Laboratory Science T Level student, you will be responsible for assisting with laboratory experiments and research projects under the supervision of experienced laboratory scientists. You will work as part of a team to carry out various laboratory tests and procedures, maintain laboratory equipment and materials, and record and analyse experimental data. You will also be responsible for following safety protocols and procedures and ensuring that all laboratory activities are carried out in accordance with industry regulations and standards.

C. General responsibilities (Under supervision)

1. Assist laboratory scientists with experimental procedures and protocols.
2. Set up laboratory equipment and materials for experiments.
3. Collect and record data from laboratory experiments.
4. Prepare samples for analysis and testing.
5. Maintain laboratory equipment and materials and ensure that they are in good working condition.
6. Follow safety protocols and procedures to ensure a safe laboratory environment.
7. Analyze experimental data and prepare reports on findings.
8. Collaborate with laboratory scientists and other team members to complete projects on time and within budget.
9. Attend training sessions and workshops to develop new laboratory skills and knowledge.
10. Maintain accurate and up-to-date laboratory records and documentation.
11. Follow Standard Operating Procedures and regulatory requirements and all Health and Safety requirements.

D. Possible Duties (Under supervision)

12. Reading and application of technical documents such as instructions related to analysis or procedures, formulations, and specifications of substances, diagrams, and manuals for equipment.
13. Handling of the laboratory devices, apparatus, and equipment to be used, safe handling of the chemicals used in laboratories, implementing safety data sheets and the measures and procedures to be derived from them.
14. Accurate quantitative weighing and volumetric techniques to prepare solutions and dilutions including any required calculations.
15. Preparation and processing of samples, as well as separation processes for mixtures of liquids and solids.
16. Measure a range of physical properties, such as: polarity, temperature, pressure, conductivity and radioactivity
17. Performance of cleaning and concentration processes such as centrifugation, distillation, extraction, evaporation, and crystallisation.
18. Determination of physical parameters and matter constants such as, temperature, density, pH value, refractive index, melting point, and conductivity.
19. Application of titrimetric methods.
20. Application of instrumental and electroanalytical methods such as Spectrophotometry, Chromatography, Potentiometry, and Conductometry.
21. Extraction, purification, and methods of quantitative and qualitative analysis of biological molecules, including electrophoresis.
22. Logging, graphic evaluation and interpretation of results, and documentation by using IT and statistical methods.

Employability skills

1. Communicating: active listening, use of visual, oral and written methods, engaging with individuals, sharing, building rapport, adapting style and tone
2. Working in a team: Working with others with different skills, expertise and experience to accomplish a task or goal
3. Assessing risks: Assessing a situation, a proposal, a product or process for potential adverse effects
4. Recording: transcribing, noting, capturing, saving and storing scientific data and information
5. Solving problems: applying a logical approach to identifying issues and proposing solutions
6. Skills and behaviours that demonstrate application of professional practice, including appropriate conduct in the professional scientific laboratory environment, always following this code of conduct, including appropriate dress and punctuality
7. Effective planning

8. Compliance with regulations appropriate to the sector/ industry and the specific working environment for the placement
9. working safely within a scientific laboratory environment; complying with all relevant legislation and regulations in handling and disposing of materials, assessing hazards and risks and using appropriate Personal Protective Equipment (PPE)
10. Skills in following Standard Operating Procedures and/or scientific papers when carrying out scientific techniques
11. Skills in using appropriate SI units and converting between measurement units if required when undertaking scientific techniques to measure a range of physical properties