

JOB DESCRIPTION
Cryogenic and Vacuum Technician, Physics Department
Vacancy Ref: A3758

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| Job Title: Cryogenic & Vacuum technician | Present Grade: G7 |
| Department/College: Physics | |
| Directly responsible to: Departmental Superintendent | |
| Supervisory responsibility for: Apprentices from Mechanical workshop (Occasional) | |
| Other contacts | |
| <p>Internal: All staff in the Physics Department, Postgraduate students, project undergraduate students. Facilities staff.</p> <p>External: Specialist engineers and suppliers.</p> | |
| Major Duties: | |
| <ul style="list-style-type: none"> • Responsibility for the day to day management, safe operation and regular maintenance of the helium liquefier and associated recovery system. This includes the return line system, gas collection bag, compressors, large volume storage vessels and bubblers in research labs. • Using a computer to run, fault find and keep records for the liquefier and plant. • Day to day responsibility for the management, safe operation and regular maintenance of the liquid nitrogen system, including bulk storage vessels, associated pipe work and automatic decanting system. • Identifying and rectifying faults when they occur. • Liaison with helium users to ensure a constant & reliable supply of liquid helium. • Maintaining electronic records of usage for internal charging. • Weekly stock taking of helium liquid & gas held in the Department to minimize losses. • Ordering supplies of helium liquid and gas as required. • Performing and keeping electronic records of regular safety checks and maintenance on transport dewars used with liquid nitrogen & helium. • Training students and staff on the safe handling of cryogenic liquids and compressed gases. • Servicing and repair of all vacuum pumps in the Department, maintaining service records, ordering spares and service parts. • Providing support to teaching areas using cryogenics. • Maintain industry awareness and a willingness to undergo training as directed. • Assisting the Departmental health & safety officer as required commensurate with grade. | |