

PERSON SPECIFICATION

This is a specification of the qualifications, experience, skills, knowledge and abilities that are required to effectively carry out the responsibilities of the post (as outlined in the job description) and forms the basis for selecting a candidate

Job Title: PDRA

Department: Physics

	Essential	Desirable	Tested by Application form/Interview/Test
Knowledge, Education, Qualifications and Training			
PhD or equivalent in a related field of study	X		Application form
Knowledge of quantum mechanics. Ability to evaluate quantum systems in dissipative environment, including numerical simulations	X		Application form, interview
Knowledge of modern nano-technological methods and micro-fabrication	X		Application form, interview
Supervisory or management training		X	Application form
Skills and Abilities			
Skill of Electron Beam Lithography	X		Application form, interview
Skill of operation of the dilution refrigerators	X		Application form, interview
Excellent oral and written communication skills	X		Application form, interview
Ability to analyse, specify and communicate administrative requirements		X	Application form, interview
Skill in microwave characterization of superconducting qubits by network and spectrum analysers	X		Application form, interview
The ability to relate to students and staff at all levels in a professional and confident manner	X		Interview
Use of webpage software to create engaging copy and images		X	Application form, interview
Experience			
Work experience in the field of experimental superconductivity and Josephson junctions in nano-structures	X		Application form, interview, publications

Experience of organising research, managing and motivating research team		X	Application form, interview
Experience of writing papers for publication		X	Application form, interview
Other requirements			
Positively initiate and contribute to the implementation of change in services and systems and maintain effectiveness in changing environments	X		Interview
Remain calm and effective under pressure	X		Interview
Prepared to work additional hours as required		X	Interview