



## 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: Postdoctoral Research Associate**

**Department: Physics**

	Essential	Desirable	Tested by (Application Form/Interview)
<b>Knowledge, Education, Qualifications and Training</b> PhD or equivalent in a related field of study Knowledge of quantum mechanics. Ability to evaluate quantum systems in dissipative environment, including numerical simulations Knowledge of modern nano-technological methods and micro-fabrication Supervisory or management training	X    X   X	       X	Application form  Application form, interview  Application form, interview  Application form
<b>Skills and Abilities</b> Skill of Electron Beam Lithography Skill of operation of the dilution refrigerators Excellent oral and written communication skills Ability to analyse, specify and communicate administrative requirements Skill in microwave characterization of superconducting qubits by network and spectrum analysers The ability to relate to students and staff at all levels in a professional and confident manner Use of webpage software to create engaging copy and images	X  X  X  X  X  X	    X       X	Application form, interview Application form, interview Application form, interview Application form, interview Application form, interview Interview Application form, interview
<b>Experience</b> Work experience in the field of experimental superconductivity and Josephson junctions in nano-structures Experience of organising research, managing and motivating research team Experience of writing papers for publication	X   X	  X X	Application form, interview, publications Application form, interview Application form, interview
<b>Other requirements</b> Positively initiate and contribute to the implementation of change in services and systems and maintain effectiveness in changing environments Remain calm and effective under pressure Prepared to work additional hours as required	 X X	  X	Interview  Interview Interview