## JOB DESCRIPTION

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>CryoSiPM Technician</th>
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<tbody>
<tr>
<td>Department / Unit:</td>
<td>Physics</td>
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<tr>
<td>Job type</td>
<td>Technical</td>
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<tr>
<td>Grade:</td>
<td>Grade 6</td>
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<tr>
<td>Accountable to:</td>
<td>Prof. J. Monroe</td>
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<td>Accountable for:</td>
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### Purpose of the Post

Based in the Department of Physics to provide expert technical assistance in the cryogenic SiPM research within the Centre for Particle Physics.

Responsibility for ensuring the facilities for cryogenic SiPM electronics production and characterisation are maintained to ensure compliance with experiment requirements. These objectives will be met working with the Astroparticle Physics group and experiment technicians.

The post holder should have previous experience in a similar establishment, and is expected to work unsupervised following induction training.

### Key Tasks

Routine care, maintenance and operations of laboratory equipment, mainly for cryogenic SiPM electronics development and characterisation.
Includes operations, maintenance and monitoring of environment, record keeping, data taking, and inspections of components.
The SiPMs and associated electronics are for low-background experiments, - maintained in conventional, clean room and low-radioactivity environments.

Liaising with the institution’s faculty, postdoctoral researchers and students as appropriate, providing supervision and training for experiment characterisation as needed.

Using machinery including waveform digitizers, spectrum analyzers, oscilloscopes, liquid nitrogen test stands, lasers and low-intensity photon sources. Preparing electronics and SiPMs for safe cryogenic operation.

Carrying out the induction of new staff in characterisation procedures, the handling of SiPMs, cryogenic electronics and use of equipment.

Responsibility for checking equipment and facilities on a daily basis dealing with repairs and maintenance visits as required. Ensuring smooth running of the electronics characterisation facilities, in adherence to relevant operating procedures and safety requirements.
Ordering and sourcing of supplies and consumables.
Manual handling of deliveries and stock of supplies (~10kg)

Carrying out procedures on animals and supervising new users.

Keeping users informed of issues arising with research facilities or equipment.

Other Duties
Contribute to a weekend, bank holiday and discretionary day rota to provide cryogenic SiPM electronics production and characterisation.
Assist with cover and duties in the laboratory facilities when required.

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the College. The post holder will be expected to undertake other duties as appropriate and as requested by their manager.

Internal and external relationships
The post holder will be required to liaise with:
Colleagues within the department, other technicians, research and academic staff
Students – postgraduate
Estates and maintenance personnel
External suppliers; service engineers.