

JOB DESCRIPTION

Vacancy Ref: A2773

Other contacts

Internal:

Dr A. Marshall and other research colleagues within the Physics Department, including Researchers, PhD students and summer students working within Dr Marshall's group.

External:

Members of collaborating and funding organizations, in particular Amethyst Research Ltd and DSTL.

Major Duties:

- 1. Design and modelling of resonant cavity infrared detectors.
- 2. Growth of infrared detectors by Molecular Beam Epitaxy using antimonide alloys including InGaAsSb, AlAsSb, InAsSb and InAs/InAsSb superlattices.
- 3. Characterisation of the structural and optical properties of grown epilayers.
- 4. Cleanroom fabrication of infrared superlattice detectors.
- 5. Temperature dependent opto-electrical characterisation of the detectors fabricated.
- 6. Report writing and presentation of results at progress meetings and occasionally at relevant international/national conferences.