

JOB DESCRIPTION
Post-doctoral Research Associate in Semiconductor QD Infrared Lasers
Vacancy Ref: A2058

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| Job Title: Postdoctoral Research Associate in semiconductor QD infrared lasers | Present Grade: 6 |
| Department/College: Physics | |
| Directly responsible to: Dr Qiandong Zhuang | |
| Supervisory responsibility for: Co-supervision of PhD students | |
| Other contacts | |
| Internal: Members of Dr Zhuang's research group and other academic staff in QTC | |
| External: A range of outside collaborators from EPSRC and EU funded projects. | |
| Major Duties: | |
| To conduct MBE growth and device processing of antimonide quantum dot materials for mid-infrared lasers for use in gas analyzing. | |
| In particular, the post holder will be expected to: | |
| <ol style="list-style-type: none"> 1. Take responsibility for day to day project management. 2. To conduct MBE growth of antimonide quantum dots and laser structures. 3. To characterize the resulting quantum materials. 4. To design, fabricate and characterize QD lasers. 5. Participate in the meetings of the project. 6. Participate in national and international conferences, presenting the results of the project and learning about current advances in the field. 7. Generally help with the running of the research group, including: supervision of new/junior members of the group and PG students. | |