JOB DESCRIPTION
Senior Research Associate in Wound (plasma) microbial decontamination
Vacancy Ref: A3515

Job Title: Senior Research Associate in plasma health
Present Grade: Grade 7

Department/College: Chemistry

Directly responsible to: Prof Rob Short/Dr Sarah Allinson (BMLS),
Supervisory responsibility for: Part responsible for some PhD students

Other contacts
Internal: Plasma health group
External: Academic Community

Major Duties:

1. To conduct a range of experiments to investigate the use of plasma jets to decontaminate wounds; lead in the development of a novel disinfection technology known as plasma-activated hydrogel therapy.

2. In biomedical and life sciences (BLMS) work with a range of cell culture and microbe systems; in BLMS run a series of biochemical assays to assay cell damage by plasma

3. In chemistry, work with a range of chemical reporter systems to measure the delivery of reactive oxygen and nitrogen species to substrates

4. In chemistry, operate a plasma multi-jet

5. To contribute to the day-to-day running of the physical chemistry and cell culture laboratories, including the upkeep of safety documentation and the organization of training for new staff and students.

6. Participation in regular project meetings with colleagues at Lancaster and preparation and presentation of talks, posters and reports to disseminate the results of these studies.

7. Participation in national and international conferences and workshops to present the results of the project to a wider audience and to learn about current advances in the field.

8. Preparation of journal papers for publication of project findings.

9. Participation in writing new research proposals that build on the expertise developed in this project.

10. if required, by agreement, work internationally (particularly Australia and Japan) as part of international collaborations in plasma health.