JOB DESCRIPTION
Senior Research Associate
Plasma Health: Wound (microbial) detection and decontamination

Vacancy Ref: A2510

Job Title: Senior Research Associate in plasma health	**Present Grade:** Grade7
Department/College: Chemistry	
Directly responsible to: Prof Rob Short/Dr Sarah Allinson (BMLS), David Cheneler (engineering)	
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; assist in the development of early stage diagnostics for microbial infection.

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, fabricate substrates for investigation of RONS delivery

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.