

JOB DESCRIPTION
Vacancy Ref: A2513

Job Title: Senior Research Associate	Present Grade: Grade7
Department/College: Chemistry	
Directly responsible to: Prof Rob Short/	
Supervisory responsibility for: Part responsible for some PhD students	
Other contacts Internal: Plasma group External: Academic Community	
Major Duties: 1. To conduct a range of experiments to investigate the use of plasma polymerisation to provide novel thin film coatings 2. Undertake the analyses of these coatings using a full suite of analytical equipment and specifically x-ray photoelectron spectroscopy 3. In Engineering, under the guidance of Dr Fabrice Andrieux, explore applications in sensing for radioactive waste materials 4. Liaise with Dr Sam Murphy (Engineering) providing information on molecules in the plasma for molecular modelling activities 5. Under the guidance of Prof Roger Pickup and Dr Tim Douglas, explore applications for coatings in biomedical and life sciences (BLS). This may involve the use of cell culture and microbe systems. 6. In chemistry, under the guidance of Dr Nick Evans, synthesis a range of new compounds for plasma polymerisation. 7. Maintain constant contact and collaboration with the plasma physics group of Prof James Bradley (Liverpool), to achieve milestones 8. Maintain contact and collaboration with NHS and industry partners to achieve milestones 9. To contribute to the day-to-day running of the physical chemistry including the upkeep of safety documentation and the organization of training for new staff and students. 10. The organization and participation in regular project meetings with colleagues at Lancaster and at Liverpool, and the preparation and presentation of talks, posters and reports to disseminate the results of these studies. 11. Maintain constant contact and collaboration with partners at the University of South Australia. 12. 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.	

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

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

15. If required, by agreement, work internationally (particularly Australia) as part of international collaborations in plasma polymerization.