

Postdoctoral position available for a Physicist or Engineer in Wine Sensing within the Institute for Photonics & Advanced Sensing (IPAS) at The University of Adelaide, Australia

Do you want to be part of a world leading transdisciplinary research team? Are you interested in developing new technologies to drive future wine technologies?

The Institute for Photonics & Advanced Sensing fosters excellence in research in materials science, chemistry, biology and physics and develops disruptive new tools for measurement.

Experimental physics research of any flavour focuses on pushing the limits of what can be measured. IPAS creates the opportunity to invent and harness new tools for measurement to address many of the current exciting big questions in science. Many of the challenges we face as a society can only be solved by pursuing a transdisciplinary approach that brings together experimental physicists, chemists, material scientists, biologists, experimentally driven theoretical scientists and medical researchers to create new sensing and measurement technologies. This is the vision of IPAS. We work to create new tools that will change the questions scientists can ask, stimulate the creation of new industries, and create a new profession of transdisciplinary problem solvers.

A collaboration between IPAS and the School of Agriculture Food and Wine (SAFW) has recently led to the award of research grant funding from the Australian National Research Council (ARC) to support the development of '**smart bung**' sensing technology, which uses optical fibre sensors to measure analytes in wine during the production cycle. The technology only requires microlitre-scale volumes per test, and does not require the barrel to be opened for sampling. This greatly reduces the potential to introduce contamination and for major producers it could significantly reduce wastage and improve wine quality. We are seeking a PhD qualified researcher with a background in optical physics or engineering to drive the development of the new sensing technologies.

Salary: Level A: \$68,751 - \$73,800 per annum

Term: Up to 3 years

Please refer to the position description or alternatively contact Ms Sara Leggatt, telephone: +61 8 8313 1059 or email: sara.leggatt@adelaide.edu.au. For further information on the Institute please visit: www.physics.adelaide.edu.au/photonics

Deadline: To be advised

Your application must:

- include your résumé/Curriculum Vitae
- address the selection criteria
- quote the relevant reference number
- include residency status
- include the names, addresses and/or email details of three referees

Email applications to sara.leggatt@adelaide.edu.au or forward in duplicate to:

Ms Sara Leggatt
Institute for Photonics & Advanced Sensing (IPAS)
School of Chemistry & Physics
The University of Adelaide
South Australia 5005
