



WQRA is Australia's new, dynamic national drinking water research organisation. It was formed in 2007 and incorporates many of the activities of the former CRC for Water Quality and Treatment

Postgraduate (PhD) Scholarship

Applications are invited for a PhD Scholarship of up to 3.5 years' duration, which is offered in conjunction with the University of South Australia (Uni SA). Applicants should be completing an Honours degree or a four year degree program with Honours, or hold a Masters degree.

The scholarship holder will join a team undertaking research on the distribution and behaviour of pathogenic microorganisms in water. The student will investigate interactions of the parasite *Cryptosporidium*, which can enter water as oocysts from human or animal faeces, with various aquatic organisms. *Cryptosporidium* is an important cause of waterborne disease and a significant challenge to water treatment processes. Understanding the impact of ecological processes on the survival of *Cryptosporidium* will be important in modelling their fate in water sources and in water system biofilms. The student will use a range of molecular, microscopic and cell-culture techniques to identify significant predators of *Cryptosporidium*, to measure ingestion kinetics and to determine the infectivity of oocysts after these interactions. Experimental data will be supplemented with environmental studies to evaluate the relative importance of different predators in nature.

Enquiries and Applications to: Dr Paul Monis, Senior Research Microbiologist, Australian Water Quality Centre, Private Mail Bag 3, Salisbury, South Australia 5108.
Telephone: 08 8259 3223, Facsimile: 08 8259 0228,
Email: paul.monis@sawater.com.au

Applicants must show evidence of excellent academic performance. Applications should comprise a covering letter, a resume & a current academic record. Updated results (if necessary) & two referee's reports will be requested after shortlisting.

Water Quality Research Australia reserves the right not to fill the scholarship.