



MACQUARIE
University

CRICOS Provider 00003J

Postdoctoral Research Fellow in Bacterial Genetics

- **Salary Package:** (Level A Step 6), From \$91,991 to \$98,588 p.a., plus 17% employer superannuation and annual leave loading
- **Appointment Type:** Full-time, fixed term for 2 years, with possibility of extension
- **Macquarie University (North Ryde) location**

The Role

An exciting role has become available in the Department of Molecular Sciences (MolSci) at Macquarie University, Sydney, in the laboratory of Dr Amy Cain. We are currently seeking a full-time **Postdoctoral Research Fellow with molecular microbiology and genetics experience** to contribute to an NHMRC-funded research project examining the effects of metal stress on the nosocomial pathogen *Acinetobacter baumannii* during host infection. This project is part of an international collaboration with the University of Adelaide and the Helmholtz Institute for RNA-based Infection Research, Germany. [Click here](#) to find out more about the Department of Molecular Sciences at Macquarie University.

About the Project

Acinetobacter baumannii is a WHO priority pathogen that causes life-threatening hospital infections, is frequently multidrug resistant, and is increasingly responsible for a major disease burden globally. The ability of *A. baumannii* to colonise, survive and thrive within hospital environments has been well documented, but its behaviour during infection and its interaction with the host immune system remains poorly understood. An important factor to success during infection is its ability to maintain metal ion homeostasis in the face of host-defence stresses and varying environments, but how *A. baumannii* deals with transitioning between conditions inducing metal starvation and intoxication remains unknown. In this project, we aim to comprehensively dissect the metal ion sensing and homeostatic mechanisms of *A. baumannii* in order to identify a weakness in the *A. baumannii* metalloregulatory network that can be exploited for novel treatment strategies. We will use a combination of post-genomic functional approaches, including transposon insertion sequencing, and laboratory-based molecular biology to achieve these goals.

Selection Criteria

To be considered for this position, applicants must address the selection criteria below, and attach your CV (including a list of two referees), a statement of research interests and achievements (1 pg max). See <https://bit.ly/2Fcy4nf> for more information.

Role Enquiries: Dr Amy K. Cain on [+61 29850 6277](tel:+61298506277) or email amy.cain@mq.edu.au

Applications Close: Sunday 28th April 2019 at 11:55pm AEST