

RESEARCH GROUP LEADER OPPORTUNITIES

Institute for Molecular Bioscience

The Institute for Molecular Bioscience (IMB) is a systems biology institute at the University of Queensland in Brisbane, Australia. IMB provides a multidisciplinary research environment with four divisions that conduct cutting edge research into the genetic, cellular and molecular basis of normal and abnormal mammalian development and variation. IMB offers world-class resources with core facilities and infrastructure for cell imaging (EM, light, fluorescence), analysis of animal models including mouse and zebrafish, high-throughput expression profiling, next-generation sequencing, proteomics, X-ray crystallography, NMR spectroscopy, computational modeling and chemical synthesis. IMB is seeking to appoint outstanding tenure-track scientists to the position of Group Leader in each of the four research divisions. Applicants should be early-career, independent researchers with an internationally competitive track record, a history of success in obtaining independent grant funding and outstanding scientific credentials. Successful candidates will demonstrate a visionary research agenda that fits within the strategic research directions of IMB.

The *Division of Molecular Cell Biology* has an international reputation for research on cell structure, signaling and membrane trafficking. The Division has created a platform for innovative, collaborative and multidisciplinary research in cell biology, which we seek to expand by recruiting new group leaders whose research will complement these areas and introduce new models and approaches. New recruits being targeted include, but are not limited to, researchers who combine a strong background in membrane biology with mathematical modeling, bioinformatics or advanced imaging and new groups studying membrane biology or trafficking in model organisms.

The *Division of Genomics and Computational Biology* has extensive expertise in computational mathematics, statistics, computer science, bioinformatics and genomics. The Division is seeking: (1) A Genomic biologist to address a strategic problem in mammalian biology through innovative application of genome-scale technology. The research will be based on high-throughput generation of data at genomic scale, and will lead to diverse collaborations within IMB and externally. (2) A Systems biologist to take a quantitative systems approach to one or more strategic problems in mammalian biology. The research will be based on excellence in a particular domain or set of technologies, but will be applied to actual empirical genome-scale data including data generated within IMB, and will lead to experiment-based model refinement and validation.

The *Division of Molecular Genetics and Development* is seeking recruits to complement current research interests in organogenesis, regeneration, cell signaling in cancer, nuclear receptor signaling, metabolism, and molecular genetics of human disease. Existing groups focus on aspects of urogenital, skin, brain, blood, limb and face development, early mesoderm specification, the molecular genetics of skin cancer, and metabolic disease. Within the division there is a strong emphasis on human disease and on the analysis of stem cells and organ regeneration. Candidates utilizing molecular and developmental approaches to understand human disease are encouraged to apply.

The *Division of Chemical and Structural Biology* has an international reputation in chemistry and structural biology, with particular strengths in rational drug design and

discovery, protein structure determination, and molecular studies at the chemistry-biology interface. The Division is seeking to recruit candidates with expertise in one of the following areas: membrane structural biology, structural biology at the interface with cell biology and/or bioinformatics, chemical biology relevant to drug discovery, biological chemistry relevant to cellular or pharmacological mechanisms.

The appointment may be at any level between Assistant Professor/Senior Research Fellow (Research Academic Level C) and Associate Professor/ Principal Research Fellow (Research Academic Level D) commensurate with the successful applicants experience and achievement and will be accompanied by an attractive initial support package. Applications including a cover letter, CV, a statement of research agenda targeted to one (or more) of the IMB divisions and the names of four referees should be sent to applications@imb.uq.edu.au. Further information about the IMB is available on the website (www.imb.uq.edu.au), or from Prof J F Hancock, Chair of the IMB Search committee. Review of applications will begin on 15th October and will continue until positions are filled.