



Protein Structure-Function Research Unit

School of Molecular and Cell Biology, Faculty of Science,

University of the Witwatersrand, Johannesburg, South Africa

SARChI POSTDOCTORAL FELLOWSHIPS IN PROTEIN BIOCHEMISTRY AND STRUCTURAL BIOLOGY

Postdoctoral positions in protein biochemistry and structural biology are available for suitably qualified PhD graduates to pursue research into improving our understanding of the relationship between protein structure and function – one of the foremost challenges in post-genomic biology. To this end, our research interests are consolidated into two main areas: (1) the stability, dynamics and folding mechanisms of multidomain and oligomeric proteins, and, (2) the structural and energetic foundations of molecular recognition between proteins and other molecules such as drugs, proteins and membranes. Proteins under investigation are of relevance to human health and include proteins involved in molecular toxicology, oxidative stress, cancer, apoptosis and HIV/AIDS.

Excellent in-house facilities are available for protein expression, purification and crystallisation as well as for state-of-the-art biophysical techniques such as protein crystallography, UV/Vis, CD and fluorescence spectroscopy, isothermal titration calorimetry, and stopped-flow kinetics.

Successful candidates should have a PhD degree in biochemistry, molecular biology, chemistry or crystallography. Good communication (written and verbal) and interpersonal skills, and computer literacy are absolute requirements.

Interested applicants should send a letter of motivation, CV, PhD synopsis, certified copy of PhD degree, and a list of three references with their email addresses to: Prof Heini Dirr, School of Molecular and Cell Biology, University of the Witwatersrand, Johannesburg 2050, South Africa. E-mail heinrich.dirr@wits.ac.za.