Position Description:
A Postdoctoral Fellow position is available immediately in the Zhang Laboratory (www.thezhanglab.com) at the Department of Molecular and Cellular Biology, University of Guelph.

Research Overview:
The Zhang laboratory uses structure-based combinatorial protein engineering technology to create synthetic intracellular probes modulating protein-protein interactions to accelerate understanding of biology and to facilitate development of novel therapeutics (see Representative Publications). Currently, we are interested in the following research projects: 1) Development of synthetic peptides and proteins to delineate biochemical mechanisms of E3 ubiquitin ligases; 2) Engineering post-translational modifications to probe and rewire DNA damage signalling; and 3) Manipulating CRISPR-based gene editing through protein engineering.

Term: This is a 1-year regular full-time position with possibility of renewal up to 3 years.

Qualifications:
• PhD in Molecular Biology, Biochemistry, Genetics, Microbiology, or related disciplines
• Experimental skills in protein biochemistry, molecule biology and mammalian cell biology
• Excellent organization, time management, and communication skills
• Problem solving and analytical abilities for experimental design
• Self-motivated, detail oriented, and with satisfactory work performance and attendance record

Representative Publications:

Responsibilities:
• Lead several research projects and conduct molecular biology experiments, tissue culture, and protein biochemistry assays
• Assist lab members for various projects
• Assist in literature review, grant/paper/report writing and data analysis
• Communicate and maintain records of experimental data
• Coordinate collaborations in and out of the lab

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