

Industrial BioDevelopment Laboratory (IBDL)/NSERC Undergraduate Student Research Award (USRA) – Project IBDL/NSERC 2012B

2012 Summer Research Project

Dates: May 7, 2012 to August 24, 2012 (Students must be available for entirety of program). Hours are generally Monday to Friday 8:00 AM to 4:00 PM/9:00 AM to 5:00 PM with the recognition that the nature of research and development activities is such that they can occasionally extend to off hours work activities.

Stipend: \$5,740 for 16 week term

Location: Industrial BioDevelopment Laboratory (www.ibdl.ca)

University Health Network

101 College Street

Toronto

Background Required: Undergraduate student having completed at least one year of university studies and no more than three years in the physical/life sciences with a minimum B cumulative average. Student will be required to submit an official transcript to NSERC confirming their grade point average. Must be a Canadian citizen or a permanent resident of Canada.

Project Number: IBDL/NSERC 2012B (to be quoted in application)

Research Project Title: Validating and commissioning a panel of monoclonal antibodies for commercial usage

Research Project Outline: The Industrial Bio-Development Laboratory (IBDL) has recently generated a panel of monoclonal anti-FGL2 antibodies that potentially can be used for analytical studies. The objective of this project is to validate the utility of these antibodies in different analytical application such as Western, Enzyme-Linked Immunosorbent Assay (ELISA), Immunohistochemistry (IHC) and Flow cytometry. Validating this panel of monoclonal anti-FGL2 antibodies will allow for commissioning a series of FGL2 products for commercial usage in the research community. The selected student will be trained by experienced technicians and post-doctoral fellows in a wide range of laboratory techniques including the production of monoclonal antibodies, protein purification and characterization as well as performance of different analytical tests to validate antibody utility.

Additional information: Students will take part in summer student program consisting of undertaking and managing a research project, participating in training workshops, and presenting at scientific and journal club symposia. Students must be comfortable in working in a modern medical research facility in which experimental animal models of disease, human clinical pathogenic specimens, are a variety of chemical and biological compounds are part of the routine laboratory environment. This is a Good Laboratory Practices (GLP) facility where professional behavior and deportment is the norm.