

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

## **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](http://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 2012C (to be quoted in application)

**Research Project Title:** Development of Techniques for Theanine Analysis in Beverages

**Research Project Outline:** This project will involve the evaluation of the novel amino acid theanine in commercial beverages. Theanine is a compound associated with nutritional benefits of beverages such as tea and we are interested in developing a routine commercial assay for detection of this compound. The student will learn techniques such as natural product extraction and analytical techniques such as thin layer chromatography, capillary electrophoresis and high performance liquid chromatography.

**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.