

**PRODUCTIVITY AND INNOVATION VOUCHER PROGRAM 2019-20  
SERVICE PROVIDER PROFILE**

The Productivity and Innovation Voucher Program is intended to help small and medium sized businesses become more productive and innovative while building stronger linkages between businesses and Nova Scotian universities and colleges.

**Any questions, please contact Todd Coombs by email at [tcoombs@nsbi.ca](mailto:tcoombs@nsbi.ca) or call 902-424-4706.**

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<p><b>Services</b></p> <p><b>Applied research</b> is undertaken by St. Francis Xavier University (StFX) researchers and directed towards solving industry challenges and problems with the goal of creating commercially viable and implementable solutions.</p> <p>StFX is very active in a number of areas of applied research including;</p> <p><i>Environmental sciences</i> - global warming, carbon capture and sequestration, alternate energy (wind, geothermal), soil-gas surveys, sub-surface contaminant delineation, gas detection instrumentation and technology development</p> <p><i>Earth Sciences</i> - ore deposit genesis, stratigraphy, structural geology, geological (metals, hydrocarbons) exploration, geochemistry</p> <p><i>Mathematics / Statistics / High Performance Computing</i> - mathematics, big data, data mining, data modelling, computer vision</p>	

*Biological Sciences* - biofilms control, anti-microbial research, seaweed research – edible species, cultivation, nutritional analysis

*Chemistry* - surfactants and colloids research, energy storage – photocatalysis, electrochemistry, molecular modelling, complex food systems chemistry, cosmetics, medicine delivery

*Human Kinetics* – sports - athletic assessment and training, athletic performance and coaching, sports technology development, muscle biochemistry and performance, human biomechanics

*Electrical Engineering* – wireless / Bluetooth connectivity, circuitry

*Human Nutrition* – nutritional analysis, and new foods analysis and development

*Psychology* – addictions research, early cognitive development, cannabinoid drugs – uses, sexual health education

### **Scientific/technology related advice and support**

StFX has a significant variety of scientific analytical equipment and high-performance computers and highly trained equipment and computing technicians available to undertake sample analysis and other technical projects for industry. StFX also has undergraduate and graduate students at the Masters level available to undertake research work within many disciplines for both industry and business.

### **Feasibility Studies**

StFX can undertake high-quality feasibility studies and market validation research. This defines a product, service or technology's competitive advantage, researches and quantifies apparent market demand and explores competition. The research can look at start-up investment capital requirements as well as ongoing costs, pricing and revenue potential. We can meet specific and specialized feasibility research requirements of clients, such as technology assessments and intellectual property issues. We prepare reports with the end client's purposes in mind and our reports often form the beginnings of a proposal writing process.

### **Industrial / process engineering services**

StFX support businesses seeking industrial and process engineering services. Services can include streamlining production systems such as plant and equipment layout and work flow planning. Projects also commonly look at cost reduction opportunities such as inventory management and waste reduction.