

At NBIF, we focus our venture capital, research investments and innovation vouchers on strategic industries, listed and explained below. If your business proposition or research project is not clearly represented by any of the below, please call us for a verbal confirmation.

### Information & Communication Technology (ICT)

- **Internet solutions/e-commerce**, software development, system integration, e-learning, e-health, security solutions, social media, network technologies, wireless applications, communications equipment
- **Geomatics** – Hydrographic and ocean mapping, and remote sensing of the earth as it applies to resource management, mineral mapping
- **Engineering** – computer, electronics, environmental, architectural, ocean technologies, medical.

### Energy & Environment

- **Alternative energy sources** – bio-fuel development, manufacturing and equipment, renewable energy generation, conversion and storage, organic battery technology, advanced oil and gas extraction methodology and practises. Solar energy systems.
- **Climate and natural environment technologies** - solid and gaseous carbon and hydrocarbon capture, advanced toxic spill adsorption and absorption materials, novel non-toxic polymer processes, biodegradable and compostable plastics, environmental testing and reporting techniques. Novel heating and cooling systems.
- **Energy efficiency** – software and machinery for identifying, monitoring and reducing energy use, alternative power systems for machines, sustainable and self sufficient industrial energy generation and power sharing. Micro-energy generating devices.

### Biosciences

- **Biotechnology** – bio-medical engineering, bio-pharmaceuticals, genomics, breeding and pest management, bio-remediation, bio-informatics, bio-products, crop science and bio-pesticides
- **Wood Science** - Forest protection, forest improvement, pulp and paper science, conifer propagation/breeding and forest pest management, genetic collection of trees
- **Marine Science** – aquaculture, commercial fish physiology & shellfish ecology, equipment development, environmental research, oceanography, fish health, genetic collections of marine life.

## Aerospace & Defence

Aerospace and defence includes businesses and institutions whose products and services are used for civil aviation and national defence and security. Products include:

- vehicle systems, aircraft components, and electronic assemblies and services related to maintenance, repair and overhaul;
- system support and training;
- training simulation for military and commercial aviation.

The sector includes companies involved in the industry's "high technology" infrastructure such as air traffic systems, mission systems and ground equipment of various kinds, as well as the space industry and security-related capabilities.

## Industrial Fabrication

Plastics and rubbers - packaging, wraps, containers, vessels, pipes and hoses

Metalworking - fabrication, chassis, building materials, transportation equipment, conveyors, harvesting equipment and containers

Electronics- communication devices, organic and metallic switches & circuits, sensors, probes, smart materials and gaming devices.

## Value-added Food

Value-added food encompasses companies producing agriculture and seafood-based products, beverages and other food made from both local and imported resources. The sector includes live, fresh, frozen, packaged, processed and preserved food products whose value and profitability has been increased by making them more appealing and valuable to the buyer.

## Value-added Wood

Value-added wood includes companies which add value to hardwood or softwood by further manufacturing or processing. This includes lumber, pulp and paper, tissue, re-manufactured products, engineered products, appearance products, and products derived from wood biomass.

## Education & Training (for Research Assistantships Initiative only.)

- **Special Needs** – addressing learning challenges related to disabilities, immigrant and minority communities, and other populations at risk and/or on the margins of Canadian society
- **Enhanced Participation** – early childhood, increased quality of K-12, enhanced participation and success in post-secondary, post-graduate, and lifelong learning
- **Teaching** – literacy, second language education, multiculturalism, teaching in minority communities, improved math and science, and human rights and social justice
- **Health** – nutrition, addiction, aging, health across the life-span (healthy populations)