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1988



National Research
Council Canada

Conseil national
de recherches Canada

Industry, Science
and Technology Canada

Industrie, Sciences
et Technologie Canada

PARTNERSHIPS IN BIOTECHNOLOGY

IC



Canada

YOUR PARTNERS

National Research Council Canada (NRCC)

supports biotechnology research and development through collaborative mechanisms and programs, which offer access to scientific and engineering expertise, facilities and funds.

Industry, Science and Technology Canada (ISTC)

supports the development and commercialization of biotechnology products and processes through various assistance programs.

Agriculture Canada (Agr)

supports the development and application of biotechnology within the food and agriculture industries and is responsible for regulations and guidelines covering veterinary, agricultural and food products.

Atlantic Canada Opportunities Agency (ACOA)

supports the long term economic growth of Atlantic Canada by stimulating entrepreneurial growth in a wide variety of qualifying sectors.

Energy, Mines and Resources Canada (EMR)

supports the application of biotechnology in conserving energy and in mineral processing for the purpose of recovery of values and environmental control and protection.

External Affairs Canada (ExtAff)

supports and coordinates international activities in biotechnology.

Environment Canada (EC)

supports biotechnology applications for the effective processing of water, wastes and spills. EC is also examining appropriate means for the control of releases of genetically manipulated organisms into the environment.

Medical Research Council of Canada (MRC)

supports university research and training in biotechnology through operating grants, including funds for equipment and salaries.

Fisheries and Oceans (F&O)

supports aquaculture and marine biotechnology research for the development of marine products and the protection of marine life.

Natural Sciences and Engineering Research Council of Canada (NSERC)

supports the development and maintenance of research and the provision of highly qualified manpower in biotechnology through fellowships, and research and infrastructure grants.

Health and Welfare Canada (HWC)

supports legislation and research aimed at satisfying requirements of quality, safety and efficacy of foods, drugs and medical devices.

Supply and Services Canada (SSC)

supports private sector research and development through grants in areas related to existing general programs.

Western Economic Diversification Canada (WD)

supports the economic growth of Western Canada through programs and services uniquely adapted to the needs of Western Canada.

Canada's National Biotechnology Strategy

provides federal policy guidance and program support for the creation of a strong, viable research and development infrastructure which will foster the utilization of biotechnology to achieve economic and social benefit.

PARTNERSHIPS IN BIOTECHNOLOGY

Guide to federal programs, services and research centres contributing
to the development of a strong biotechnology industry in Canada

September 1988

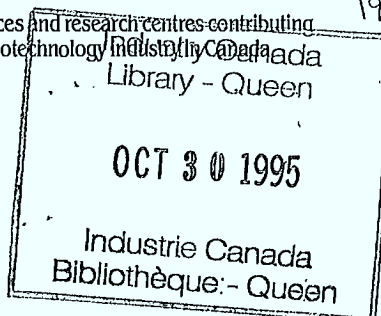


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Symbols Identifying Federal Departments and Agencies in this Guide



Agr Agriculture Canada



ACOA Atlantic Canada Opportunities Agency



EMR Energy, Mines and Resources Canada



EC Environment Canada



ExtAff External Affairs Canada



F&O Fisheries and Oceans



HWC Health and Welfare Canada



ISTC Industry, Science and Technology Canada



MRC Medical Research Council of Canada



NRCC National Research Council Canada



NSERC Natural Sciences and Engineering Research Council of Canada



SSC Supply and Services Canada



WD Western Economic Diversification Canada

ABOUT THIS GUIDE

The federal government recognizes the need to form strong partnerships with the biotechnology community to achieve international competitiveness. Therefore it offers industry and universities a host of support mechanisms to facilitate the research, development and commercialization of biotechnology products and processes. This Guide describes these programs, services and research centres and identifies the people who can provide further information and assistance.

This Guide was prepared by the National Research Council of Canada (NRCC) and the Department of Industry, Science and Technology (ISTC) in collaboration with other federal departments and agencies. We welcome comments or suggestions about its content and format.

Comments or requests for additional copies may be addressed to:

Collaborative Ventures
Biotechnology Research Institute
National Research Council Canada
6100 Royalmount Avenue
Montreal, Quebec
H4P 2R2
(514) 496-6100

Biotechnology and Health Care
Products Directorate (IRPI)
Industry, Science
and Technology Canada
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 954-3064

INDEX TO FEDERAL PROGRAMS AND SERVICES BY ACTIVITY SUPPORTED

CPS



ENFOR Energy from the Forest

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Research	Technology Transfer	Development	Marketing	Production	Investment	International Activities

ACOA



AAP ACOA Action Program

6

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ISTC



BHPD Biotechnology and Health Care Products Directorate

7

BOSS Business Opportunities Sourcing System

7

CABE Canada Awards for Business Excellence

8

IOI Information on Imports

8

MSDP Microelectronics and Systems Development Program

8

SBLA Small Businesses Loans Act

9

TOEP Technology Opportunities in Europe Program

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TOP Technology Outreach Program

10

CPDL Canadian Patents and Development Limited

11

FBDB Federal Business Development Bank

11

EMR



BDP Bioenergy Development Program

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IERD Industry Energy Research and Development

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EC



DIRECT Development and Demonstration of Resource and Energy Conservation Technology

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ExtAff



CRTA Cost Recoverable Technical Assistance

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PEMD Program for Export Market Development

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TIP Technology Inflow Program

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CCC Canadian Commercial Corporation	15
CIDA Canadian International Development Agency	15
EDC Export Development Corporation	16
IDRC International Development Research Centre	17

MRC



CRP Collaborative Research Program	17
IF Industrial Fellowships	18

NRCC



CISTI Canadian Institute for Scientific and Technical Information	18
CPSD Centre for Protein Structure and Design	19
CO-OP TECH Cooperative Technology	20
IRAP:Field Industrial Research Assistance Program – Field Network	20
IRAP:R Industrial Research Assistance Program – Laboratory Network	21
NBP NRC Biotechnology Program	22

NSERC



CRD Cooperative Research and Development	22
IRC Industrial Research Chairs	23
RT Research Training	23
TD Technology Diffusion	23

SSC



CP Contracting-out Program	24
UP Unsolicited Proposals	24

WD



WDP Western Diversification Program	25
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**Agr
CFS
ENFOR
Energy from the Forest**

ENFOR
Secretariat
Canadian Forestry Service
Vincent Massey Place
Hull, Quebec
K1A 1G5
J. Richardson
(819) 997-1107

ENFOR is a contract research and development program aimed at generating sufficient knowledge and technology to realize a marked increase in the contribution of forest biomass to Canada's energy supply. The program deals with biomass supply matters such as inventory, growth, harvesting, processing, transportation, environmental impacts, and socio-economic impacts and constraints. The program normally provides total funding for contracted studies, the results of which become the property of the federal government and are freely available to the public.



**ACOA
AAP
ACOA Action Program**

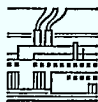
ACOA Action Program
P.O. Box 6051
770 Main Street
10th Floor
Moncton, New Brunswick
E1C 9J8
ACOA
Offices
Annex D

The Atlantic Canada Opportunities Agency (ACOA) is a federal government development agency for Atlantic Canada. ACOA promotes the long term economic growth of Atlantic Canada by stimulating entrepreneurial growth in a wide variety of qualifying sectors.

For a complete description of eligible sectors, consult the loan insurance regulations, terms and conditions for contributions, available at ACOA offices.

The ACOA Action Program offers seven main areas of assistance:

- Loan Insurance
 - Interest Buy Downs
 - Business Support
 - Studies
 - Innovation Assistance
 - New Facility Establishment
 - Expansion/Modernization/
New Product Expansion
-



**ISTC
BHPD
Biotechnology and Health Care Products
Directorate**

**Biotechnology and
Health Care Products
Directorate (IRPI)**
ISTC
235 Queen Street
Ottawa, Ontario
K1A 0H5

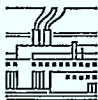
E. Dickson
(613) 954-3138 or
ISTC
Regional Offices
Annex B

The Department of Industry, Science and Technology (ISTC) is a recent amalgamation of the Department of Regional Industrial Expansion (DRIE) and the Ministry of State for Science and Technology (MOSST). This Department will build upon the National Biotechnology Strategy initiated in 1983 to strengthen research and development in biotechnology by expanding its focus to encompass the full range of activities involved in commercialization.

The Directorate of Biotechnology and Health Care Products is the focal point within ISTC for industrial applications of biotechnology. As industry advocate, this Directorate works closely with industry, the research community and government colleagues to promote the development in Canada of an environment which favours industrial growth in the area of biotechnology. It also provides assistance to industry-led alliances with other companies, universities or government laboratories to carry out research and development or technology applications of biotechnology.

The Directorate is assisted in serving the biotechnology community by a team of ISTC officers across Canada and through them by an extensive network which includes the private sector, the research community, other federal departments and provincial governments throughout Canada.

Support for the eight R&D Networks established over the past five years by MOSST in collaboration with other federal departments, universities and the private sector, will be provided by ISTC. As the need arises, other networks may be added. Please see pages 40 and 41 for details of active networks.

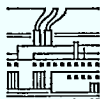


**ISTC
BOSS
Business Opportunities Sourcing System**

**BOSS
Business Services
Branch**
ISTC
235 Queen Street
Ottawa, Ontario
K1A 0H5

(613) 954-5031 or
ISTC
Regional Offices
Annex B

BOSS is an authoritative database on Canadian companies, their products and the markets they serve. Information on individual manufacturing services and international trading companies is incorporated into a system that identifies Canadian suppliers for international and domestic markets. Conversely, suppliers can identify users of their products to find supply opportunities. Responsibility for inclusion in BOSS rests with the company. Registration and subscription forms are available from ISTC Regional Offices, Business Information Centres, provincial departments of industry or directly from ISTC, Ottawa.

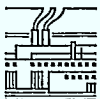


**ISTC
CABE
Canada Awards for Business Excellence**

**CABE
Business Services
Branch
235 Queen Street
Ottawa, Ontario
K1A 0H5**

**(613) 954-4079 or
ISTC
Regional Offices
Annex B**

The Canada Awards for Business Excellence program recognizes exceptional achievements which contribute to Canada's competitiveness. Productivity, entrepreneurship, marketing, labour/management cooperation, invention, innovation, industrial design and small business awards are presented annually in each of these eight categories. The awards are open to business enterprises of all sizes and in all fields of economic activity. Application forms are available from ISTC Regional Offices or directly from Ottawa.

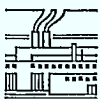


**ISTC
IOI
Information on Imports**

**Market Information &
Analysis
Business Services Branch
235 Queen Street
Ottawa, Ontario
K1A 0H5**

**(613) 954-4970 or
ISTC
Regional Offices
Annex B**

Information on Imports into Canada is a free service that provides strategic intelligence for companies wishing to manufacture, in Canada, products that are currently imported. Specific import data sheets, import profiles and import analyses can be prepared, on request, for a given product based on analysis of customs import documents. Also available are reports previously published. Access to this service can be obtained through ISTC Regional Offices or directly from Ottawa.



**ISTC
MSDP
Microelectronics and Systems
Development Program**

**MSDP
Coordinator
Information
Technologies
Industry Branch
ISTC
235 Queen Street
Ottawa, Ontario
K1A 0H5**

**A. St-Pierre
(613) 954-3470 or
ISTC
Regional Offices
Annex B**

The MSDP is a cost-sharing program that provides financial support to encourage Canadian companies to undertake technologically innovative projects in microelectronics and systems development which will improve the international competitiveness of the Canadian manufacturing, processing or service industries.

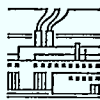
To be eligible for funding, projects must involve the development of innovative systems based on advanced microelectronics and software for application in the manufacturing, processing or service industries.

For instance:

- the communication, processing and display of information in real time;
- production and process control;
- generic microelectronic components for use in a range of advanced systems.

An important criterion is that the project must enhance the international competitiveness of Canadian companies using these new systems and technologies, and of companies undertaking the development of the new systems and technologies.

Contributions, or repayable contributions of up to 50% of the eligible costs of research and development projects may be provided to a maximum of \$5 million.



**ISTC
SBLA
Small Businesses Loans Act
(Business Improvement Loans)**

Small Business Loans
Administration
ISTC
235 Queen Street
Ottawa, Ontario
K1A 0H5

Contact lending
institution of your
choice

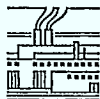
The Small Businesses Loans Act (SBLA) is designed to help new and existing small business enterprises obtain intermediate term loans from chartered banks and other designated lenders to help finance specific fixed asset needs. These business improvement loans are made directly by lending institutions at an interest rate not exceeding the current prime rate plus 1% to small business enterprises having an estimated annual gross revenue not exceeding \$2 million. The SBLA provides for the sharing of loan losses, if any, between the lenders and the federal government.

Business Improvement Loans are available for:

- the purchase of fixed or moveable equipment, including the cost of installation of fixed equipment and the renovation, improvement or modernization of equipment;
- the purchase or construction of new premises or the improvement or modernization of existing premises in which the business is, or is about to be, carried on;
- the purchase of land for the operation of a business.

Loans may be used to finance up to 80 percent of the cost of equipment (including fixed equipment installation) and 90 percent of land and premises (including premises renovation). The maximum amount of business improvement loans a borrower may have outstanding at any one time under the SBLA may not exceed \$100,000.

All chartered banks are authorized to make business improvement loans under the provisions of the SBLA. Loans may also be made by Credit Unions, Caisse Populaires or other cooperative societies, trust companies, loan companies, and insurance companies which have applied and have been designated as lenders under the SBLA. Loans are made by these institutions without prior reference to ISTC.



**ISTC
TOEP**

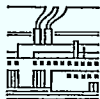
Technology Opportunities in Europe Program

TOEP Coordinator
Programs
and Planning Division
Information Technologies
Industry Branch
ISTC
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 954-3454

TOEP is designed to contribute to the growth of a strong high technology industry in Canada through the development of new technology and expertise in Canadian firms and through the promotion of industrial cooperation between Canadian and European firms. Specifically TOEP facilitates the participation of Canadian firms in Eureka high technology projects. Under Eureka, European companies are currently formulating projects for the development and commercial exploitation of new products and processes in a broad range of strategic technologies including biotechnology.

Two types of assistance are available under TOEP:

- **Investigation of Opportunities** – contributions toward the eligible costs of exploring the potential for Canadian participation in both proposed and approved Eureka projects, and the eligible costs associated with negotiating an agreement with the European partner(s). Support normally consists of 100 percent of economy airfare to Europe and 50 percent of technical and legal fees incurred to secure an agreement with the European partner.
- **Research and Development** – contributions towards the eligible costs incurred by a Canadian-based company on research and development in the context of a Eureka project under an agreement with the European partner(s). Generally, the level of support will be to a maximum of 50 percent of eligible costs which are the Canadian partner's share of the total costs attributable to the R&D performed as per the agreement with European partners on a Eureka project.



**ISTC
TOP**

Technology Outreach Program

TOP
Technology Liaison
Directorate
ISTC
10th Floor East
235 Queen Street
Ottawa, Ontario
K1A 0H5

A. Letendre
(613) 954-3468

The Technology Outreach Program supports the establishment of technology centres. It provides start-up and on some occasions, sustaining assistance to non-profit organizations offering services leading to the adoption and application of new technologies and skills by small to medium sized firms.



**ISTC
CPDL**

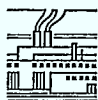
Canadian Patents and Development Limited

**Business Development
CPDL**
275 Slater Street
Ottawa, Ontario
K1A 0R3

K.F. Crowe
(613) 990-6100

CPDL's main objective is making available to the public the industrial and intellectual property that results from research and development that is publicly funded. The Corporation's mandate is to administer, protect and market Crown-owned technology, as well as administer assigned technology developed by universities, provincial research institutes and other non-profit organizations.

CPDL endeavours to obtain proprietary protection for much of the commercial technology in the form of patents, registered copyrights, trademarks and industrial designs. Even before the protection is obtained, CPDL endeavours to exploit the technology commercially by way of sales, licenses and other arrangements. CPDL also conducts educational seminars, as well as furnishes general advice and assistance to departments, agencies and institutions in relation to industrial and intellectual property.



**ISTC
FBDB**

Federal Business Development Bank

FBDB
Head Office
800 Square Victoria
Montreal, Quebec
H4Z 1A4

(514) 283-5904 or
FBDB
Regional Offices
Annex C

The FBDB is a Crown Corporation which promotes and assists most types of businesses in Canada at either the start-up stage or at some other stage in their development. Three principal services are offered to Canada's business community:

- Financial services – FBDB offers term loans, loan guarantees and a financial planning program.
- Investment banking services – FBDB is prepared to purchase shares in a business or to work with other financial institutions in the private sector to obtain the equity financing required.
- Management services – FBDB provides sources of business counselling, training and information for small and medium size businesses in Canada through the following services and programs:

CASE
**Federal Business
Development Bank**
280 Albert Street
Suite 200
Ottawa, Ontario
K1P 5G8

E. Keeling
(613) 995-5068 or
FBDB
Regional Offices
Annex C

• **Counselling Assistance to Small Enterprise (CASE)**

More than 1,500 successful retired business people assist firms in improving their methods of doing business. They provide counselling, at a moderate cost, in all areas of business management, including accounting, marketing, production and personnel.

• **Business Management Seminars**

• **Management Clinics**

• **Owner/Manager Courses**

• **Information Services**

• **Strategic Business Planning Service**



**EMR
BDP**

Bioenergy Development Program

BDP
Bioenergy Division
Renewable Energy
Branch
EMR
Killeany Bldg.
460 O'Connor Street
Ottawa, Ontario
K1S 5H3

D. Hayes
(613) 996-6227

The BDP provides financial support for the research, development and demonstration of new methods and technologies aimed at substituting biomass (eg wood, agricultural residues, municipal and industrial organic waste and peat) for non-renewable fuels and chemicals. Projects may involve direct combustion technology, preparation and handling of feedstocks for conversion systems and biochemical and thermochemical conversion technologies. Assistance is available through cost-shared or fully funded arrangements, to the private sector, universities, research organizations, other levels of governments and the international community.



**EMR
IERD**

Industry Energy Research and Development

IERD
Energy
Conservation Branch
EMR
Killeany Bldg.
460 O'Connor Street
Ottawa, Ontario
K1S 5H3

D.J. Skinner
(613) 996-2480 or
ISTC
Regional Offices
Annex B

The IERD program supports Canadian industry in undertaking research and development projects which lead to new and improved processes, equipment, products and systems of an energy-conserving nature, and for which the developed technology would have wide applications in Canada. Grants are available for up to 50 percent of the total estimated project costs, including direct material and labour, specialized equipment, prototypes and pilot plants, travel, consultant fees and a reasonable allocation of overhead and general administrative expenses.



**EC
DRECT**

Development and Demonstration of Resource and Energy Conservation Technology

DRECT Program
Technology Development
& Technical Services
Branch
Conservation
and Protection
EC
Ottawa, Ontario
K1A 0H3

A. Ross
(819) 953-1192

The DRECT program offers funds in support of innovative technologies or processes aimed at reducing waste; recovering or recycling wastes; and saving energy, especially the energy derived from non-renewable resources. DRECT will provide up to 50 percent of the total estimated costs of an approved project up to a maximum of \$200,000 per year for a period of up to three years. The eligible costs include equipment, buildings, installations, engineering and consulting services. The successful applicant will be required to provide a comprehensive final report on the project.



ExtAff CRTA Cost Recoverable Technical Assistance

CRTA Program
Export Finance,
Capital Projects
and Trading
Houses Division (TPF)
Ext Aff
125 Sussex Drive
Ottawa, Ontario
K1A 0G2
(613) 996-1328

The CRTA program is designed to provide public sector expertise on a cost-recoverable basis in two ways:

- to foreign countries on a government-to-government basis to enable developing countries to improve certain sectors of their economies by using Canadian expertise.
- to Canadian companies, particularly those involved in the export marketing of capital projects, to help Canadian companies bidding on projects abroad improve the quality of their proposals and thus increase penetration of foreign markets.

Another feature of the CRTA program is arranging training of personnel from customer countries to acquire expertise in a specialized field from a Canadian organization. This could lead to increased technical cooperation and commercial exchanges between the two countries.



ExtAff PEMD Program for Export Market Development

Export Programs
Division (TPE)
Ext Aff
125 Sussex Drive
Ottawa, Ontario
K1A 0G2

ISTC
Regional Offices
Annex B

PEMD offers financial assistance to Canadian businesses that wish to participate in or undertake various types of international trade promotion and export activities. The Program covers projects initiated by industry, as well as projects initiated by government that business participates in by invitation. PEMD is designed to assist companies regardless of size.

Financial assistance is available to eligible participants and applicants for the following export marketing activities:

Government-Initiated

- Trade Missions outside of Canada, and for foreign business and officials coming to Canada or to trade shows where Canadian business participation is substantial.
- Trade Fairs abroad in specific industrial sectors or for specific types of products. Participants in government-initiated trade fairs pay a participation fee.

Industry-Initiated

- Participation in recognized trade fairs outside Canada.
- Visits outside Canada to identify markets, and visits of foreign buyers to Canada or to another approved location.
- Project bidding, or proposal preparation, at the pre-contractual stage, for specific projects outside Canada involving international competition and formal bidding procedures. Covers the supply of Canadian goods and services for major capital projects including consulting services, engineering, construction and equipment.
- The establishment of export consortia for companies that would be better able to exploit export opportunities by pooling their resources and sharing costs and risk with other companies.

- The establishment of permanent sales offices abroad (excluding the U.S.) in order to undertake sustained marketing efforts outside Canada.
- Special activities for non-profit, non-sales, food, agriculture, and fish organizations, marketing boards and agencies (for the benefit of their members). Activities include participation in trade fairs, visits, technical trials, product demonstrations, seminars and training, and commodity promotion.

The Program also extends to businesses the possibility of entering into long term PEMD marketing agreements to undertake a combination of the above activities.



ExtAff TIP Technology Inflow Program

TIP
Science, Technology and
Communications
Division (TTS)
Ext Aff
125 Sussex Drive
Ottawa, Ontario
K1A 0G2

W. Ryback
(613) 996-0705 or
NRCC
Regional Offices
Annex A

TIP promotes the acquisition of foreign technological innovation needed to develop new or improved Canadian products, processes, or services.

- TIP Post Services make use of Canadian government offices abroad to locate and facilitate linkages with foreign sources of technology;
- TIP Fund provides financial support to help Canadian organizations acquire foreign technologies relevant to their needs. Funds may be provided for such activities as exploratory visits abroad; working visits to foreign organizations by Canadian scientists and engineers or to Canada by foreign experts; and international cooperative R&D projects.

Manager Exchange with Japanese Industry

An exchange program with Japanese industry has been developed whereby financial support is provided for working visits between Japan and Canada. The exchange promotes private sector cooperation which will result in technological collaboration needed to transfer new products, processes, or services to Canada.

Bureau of International
Relations
NRCC
Montreal Road
Ottawa, Ontario
K1A 0R6

L. Racine
(613) 993-1283

Canada/France Science and Technology Cooperation Program

This program seeks to promote, through collaborative projects or exploratory missions, activities intended to result in scientific and technological advances of potential industrial economic benefit to Canada. Financial support is provided for all travel costs as well as an allowance for living expenses.



**ExtAff
CCC
Canadian Commercial Corporation**

Canadian Commercial
Corporation
50 O'Connor Street
11th floor
Ottawa, Ontario
K1A 0S6
(613) 996-0034

CCC is a Crown Corporation established to assist in the development of trade between Canada and other nations. Within this broad mandate, the Corporation's objective is to facilitate the export of a wide range of goods and services from Canadian sources, by serving as a prime contractor in government-to-government transactions.

CCC develops government-to-government contracts by tying together the requirements of foreign governments and international agencies with the supply capabilities of Canadian producers of goods and services. Qualified businesses interested in exporting need only indicate this when registering with Supply & Services Canada (SSC) for inclusion in its sourcing list. When foreign governments and agencies submit tenders for goods and services which Canadian companies can supply, the CCC invites qualified businesses to submit bids.



**ExtAff
CIDA
Canadian International Development Agency**

Industrial Cooperation
Division
CIDA
200 Promenade du Portage
Hull, Quebec
K1A 0G4
E. Gauvreau
(819) 997-7901

CIDA supports the efforts of developing countries in fostering economic and social growth through official bilateral channels, multilateral development institutions and the development activities of non-governmental organizations and the private sector.

The Business Cooperation Branch assists Canadian companies to penetrate new markets in developing countries and supports Canadian firms seeking opportunities for investment, joint ventures and transfers of technology to these markets. Through the Industrial Cooperation Program (INC) financial support is offered to Canadian private sector initiatives in long-term business cooperation arrangements and in project definition studies in developing countries. Support is also provided for making contacts and identifying opportunities through seminars and investment missions.

The Industrial Cooperation Program is divided into two sections:

- The Long-Term Business Collaboration section
 - a) Starter Study (SS) provides support for a preliminary analysis of the factors relevant to the establishment of a long-term business cooperation arrangement in a developing country;
 - b) Viability Study (VS) follows positive results obtained through the SS and provides support to take the company to the conclusion of its joint-venture negotiations;
 - c) Canadian Technology Transfer Facility (CTTF) can contribute financial assistance in support of an adaptation/testing proposal;
 - d) Canadian Project Support Facility (CPSF) is available to offset certain costs incurred in the early stages of operation that are peculiar to the industrial and commercial environment of a developing country.

- The Project Definition Studies section

This section comprises the Canadian Project Preparation Facility (CPPF) which provides support to Canadian firms to undertake project preparation studies of capital projects, where there is a strong possibility of project implementation and a competitive Canadian supply of goods and services to subsequent stages of the project.

If Canadian companies identify opportunities which appear to meet the objectives of the INC program, they should contact the program manager responsible for the country in which they are interested.

TCP China

Canada-China Technology Cooperation Program

TCP China
Asla Bureau, Industrial
Cooperation Division
CIDA
200 Promenade du Portage
Hull, Quebec
K1A 0G4

M. Landry
(819) 997-0560

In order to stimulate economic cooperation between Canada and China, a Technology Cooperation Program (TCP) has been established. The TCP calls for tripartite financing of feasibility studies for important projects identified by China and accepted by Canada for presentation to the Canadian private sector. Financial contributions from CIDA, the Chinese client and the selected Canadian firm will cover the total cost of the study.

Canadian companies can participate in the TCP by keeping themselves informed of opportunities presented in business newspapers and magazines in Canada. Such opportunities will be listed for a period of 3 or 4 weeks and will invite interested Canadian firms to request pre-qualification forms from CIDA for completion and transmittal directly and simultaneously to the Ministry of Foreign Economic Relations and Trade of China (MFERT) and the Chinese client.



ExtAff
EDC
Export Development Corporation

Export Development
Corporation
151 O'Connor Street
P.O. Box 655
Ottawa, Ontario
K1P 5T9

Manager, Communications
(613) 598-2990

EDC is a commercially self-sustained Crown Corporation that provides financial products and services to facilitate and expand Canadian export trade.

EDC offers the following types of financial products:

- Credit insurance to exporters;
- Medium- and long-term loans to foreign buyers of Canadian goods and services;
- Guarantees to banks and other financial institutions that finance Canadian exports;
- Foreign investment insurance covering Canadians against loss of investment abroad due to political events;
- Performance and surety insurance for Canadian exporters (including contractors), banks and other financial institutions against calls on performance bonds and guarantees.



**ExtAff
IDRC
International Development Research Centre**

Communication Division
IDRC
P.O. Box 8500
Ottawa, Ontario
K1G 3H9

D. Gagnon
(613) 598-0569

IDRC is a Public Corporation created to stimulate and support scientific and technical research by developing countries for their own benefit. The Centre also promotes cooperation between developing-country researchers and their counterparts in Canada, and helps to create and support international research networks.

The fields of investigation to which IDRC gives its financial and professional support include agricultural, health, social sciences, information sciences, earth and engineering sciences, training and implementation of research results. It is important that the developing country research group play a significant role in formulating a scientifically sound project proposal and in planning and executing the project, thereby strengthening its research capacity.

A portion of the Fellowship and Awards Division funds is also used to encourage the involvement of young Canadian researchers in scientific areas of concern to IDRC and to expose them to the problems of the developing world.

IDRC's Communications Division produces a number of publications, such as a quarterly magazine called *The IDRC Reports*, and an annual review entitled *Searching*.



**MRC
CRP
Collaborative Research Program**

MRC
20th Floor
Jeanne Mance Bldg.
de l'Eglantine Street
Tunney's Pasture
Ottawa, Ontario
K1A 0W9

G. Beauchemin
(613) 954-1972

Research Grants

MRC will provide support for the salary of one or more investigators who hold or will hold an appointment in a Canadian university. Operating fund support may also be requested to cover the costs of salaries of research assistants, technicians and others, plus their fringe benefits, the stipends of research trainees, materials and supplies, equipment and travel.

The objective of the program is to help initiate focused research in the health sciences for which there is an industrial need. The program is designed to help industry collaborate with university-based researchers to solve specific technical problems.

Workshops

MRC will offer support jointly with industry for the organization of workshops, to enable researchers to address specific questions and problems important to research in the health care sciences.



**MRC
IF
Industrial Fellowships**

MRC
20th Floor
Jeanne Mance Bldg.
de l'Eglantine Street
Tunney's Pasture
Ottawa, Ontario
K1A 0W9

G. Beauchemin
(613) 954-1972

Researchers

MRC will provide up to three years of support for the salary of an individual with an advanced degree in the health sciences and who undertakes research training in an industrial milieu.

Industry-University Visiting Program

MRC will provide support including a monthly honorarium, transportation grant and operating costs to facilitate visits of three to twenty-four months, by health science researchers to industry and by industrial researchers to Canadian universities and their affiliated institutions. The program is intended to enhance the transfer of technology and create linkages between industry and university.



**NRCC
CISTI
Canada Institute for
Scientific and Technical Information**

**NRCC
CISTI**
Building M-55
Montreal Road
Ottawa, Ontario
K1A 0S2
(613) 993-1600

CISTI is responsible for building and maintaining the national collection of scientific, technical and medical literature. In addition, the Institute operates a wide range of services, including document delivery, online information retrieval systems, reference and referral services, and publications, to facilitate Canadian access to the world's scientific and technical information resources.

B. Bullock
(613) 993-1210

CAN/OLE Canadian Online Enquiry

Subscribers can use their own computer terminals anywhere in Canada to access nearly 40 Canadian and international scientific databases. CISTI's own catalogue and journal holdings in more than 300 Canadian libraries are also available with an on-line document ordering capability.

B. Bullock
(613) 993-1210

CAN/SDI Canadian Selective Dissemination of Information

A computerized current awareness service matches a client's interest profile with tapes listing the most recent publications in his/her field, and provides regular print-outs of relevant citations.

G.H. Wood
(613) 993-4165

CAN/SND Scientific Numeric Databases

CAN/SND is accessible on line, through tape lease or customized search, and allows scientists and engineers to search, retrieve and manipulate critically-evaluated numeric data.

K. Wallace
(613) 993-2013

Reference Services

Literature searches, answers to specific questions, and verification of information are services provided by information specialists who use CISTI's extensive collection, the largest in Canada, and who have access to several hundred databases.

M. Gabe
(613) 993-3568

Publications

A list of publications is available.

M. Wong
(613) 993-1604

Health Sciences Resource Centre

HSRC coordinates the Canadian MEDLARS network, of the U.S. National Library of Medicine and provides reference services.



NRCC
CPSD

Centre for Protein Structure and Design

CPSD
Biotechnology Research
Institute
6100 Royalmount Ave.
Montreal, Quebec
H4P 2R2

The Centre for Protein Structure and Design is a national resource, housing expertise in the detailed structural analysis of proteins, drugs and pesticides of importance to Canadian industry. In addition, it provides a valuable fundamental support role to protein engineering and rational drug design activities for the industry, university and NRC research communities.

A.C. Storer
(514) 496-6256

The centre is one of the principal facilities and services of the NRC Biotechnology Program, comprised of the Biotechnology Research Institute (BRI) in Montreal, the Division of Biological Sciences (DBS) in Ottawa and the Plant Biotechnology Institute (PBI) in Saskatoon.

CPSD
Division of Biological
Sciences
Montreal Road
Ottawa, Ontario
K1A 0R6

The Centre features a multidisciplinary team of scientists and technologists equipped with state-of-the-art instrumentation and computational tools. Research programs emphasize the principal structure determination disciplines; x-ray crystallography, 2-D nuclear magnetic resonance, protein spectroscopy and biomolecular modelling.

P.R. Carey
(613) 990-0829



NRCC
CO-OP-TECH
Cooperative Technology

IRAPLab
NRCC
Montreal Road
Building M-55
Ottawa, Ontario
K1A 0R6

D.G.T. Cooper
(613) 993-5539 or
NRCC
Regional Offices
Annex A

The CO-OP-TECH program (formerly the Incubator Program) offers firms a single point of entry into the laboratories of various federal government departments and agencies, including:

- Agriculture Canada
- Energy, Mines and Resources Canada
- Environment Canada
- Fisheries and Oceans
- Health and Welfare Canada
- National Research Council Canada

A firm may locate a technical team in a federal government laboratory for a maximum period of three years. Projects should focus on the development of a unique product or service of commercial importance, and should be of relevance to ongoing activities in the laboratory in which the cooperative work is to take place.



NRCC
IRAP – Field
Industrial Research Assistance
Program – Field Network

IRAPField
NRCC
Building M-55
Montreal Road
Ottawa, Ontario
K1A 0R6
(613) 997-1753 or
NRCC
Regional Offices
Annex A

IRAP-C Field Advisory Service

IRAP-C provides a personal and confidential "on-site" service to Canadian companies with limited technical resources. In so doing, it assists firms in acquiring or expanding a technological base necessary to ensure the competitiveness and profitability of their operations. The service is provided free of charge.

IRAP-H Contributions to Firms Employing Undergraduates

IRAP-H assists small and medium size companies to solve short-term scientific, engineering, and technological problems. Assistance is provided through support of university or technical college students hired to work under the guidance and supervision of IRAP Industrial Technology Advisors or other qualified professionals. Assistance is available to cover costs of student salaries and relocation expenses.

IRAP-L Contributions to Laboratory Investigations

IRAP-L assists small and medium size companies to solve short-term engineering and technological problems, improve production operations, and expand or enhance their effective technology base through the use of specialized external laboratory staff and facilities. Financial assistance is available for a portion of the costs arising from the use of specialized services and equipment available in research institutes, laboratories, universities, consulting firms, and from resource people.

IRAP-M Contributions to Small Projects

IRAP-M serves to encourage small companies (under 200 employees) with limited or no technical staff to carry out research and development projects through the use of internal or external facilities. Financial assistance is available to cover the salaries and fringe benefits of the company's professionals and technicians, or for the use of research staff at other research organizations, working on approved projects.



NRCC IRAP-R Industrial Research Assistance Program – Laboratory Network

NRCC
IRAP-R
Building M-55
Montreal Road
Ottawa, Ontario
K1A 0R6

D.G.T. Cooper
(613) 993-5539

Contributions to Major Collaborative Projects Involving Technology Transfer

Financial Assistance for Longer Term Applied Research Projects

IRAP provides assistance to industry for applied research projects lasting two to three years. Proposed research projects must be scientifically feasible, commercially realistic, and have in view marketable end products and processes for which a demonstrable need or opportunity is foreseen, and, for which an accessible market sufficient to justify exploitation in Canada is anticipated. Contributions are available to large and small companies and would in principle cover up to 50 percent of project costs, including salaries and contracted-out work.

Transfer of Existing Biotechnology in Government, University, Institute or International Laboratories to Canadian Companies, or Codevelopments and Subsequent Transfer of Technology.

Formerly the Program for Industry/Laboratory Projects (PILP), this program provides funds to Canadian companies that are willing to undertake further work on research results from NRCC, all government department and university laboratories, to determine whether commercialization would be economic or whether a specific Canadian opportunity exists. Projects with a particular emphasis on biotechnology are supported from the conceptual stages through to prototype or pilot plant development within the company. Funding is on a cost shared basis between the federal government and the industrial partner.



**NRCC
NBP
NRC Biotechnology Program**

BRI
6100 Royalmount Avenue
Montreal, Quebec
H4P 2R2

A. Marsan
(514) 496-6100

DBS
Building M-54
Montreal Road
Ottawa, Ontario
K1A 0R6

G.H.M. Adams
(613) 993-6005

PBI
110 Gymnasium Road
Saskatoon, Saskatchewan
S7N 0W9

W.G.W. Kurz
(306) 975-5570

The NRC Biotechnology Program invites science-based and high technology enterprises to submit proposals for collaborative research with researchers from its three biotechnology divisions described on pages 38 and 39 of this Guide. These include the Division of Biological Sciences (DBS), in Ottawa, the Plant Biotechnology Institute (PBI) in Saskatoon, and the Biotechnology Research Institute (BRI) in Montreal.

The objective of the Program is to encourage the expansion of Canadian industrial biotechnology capabilities through various mechanisms which may involve direct financial support through contributions to cost shared projects; contracting-out which complements or extends NRC expertise; contracting-in to provide a full complement of services to industry; and Guest Worker arrangements accommodating corporate and/or university research personnel.



**NSERC
CRD
Cooperative Research and Development**

**University-Industry
Programs**

NSERC
200 Kent Street
Ottawa, Ontario
K1A 1H5

Grants Officer
(613) 996-1898

Research Grants

NSERC will join industry in providing grants to universities to conduct a wide range of collaborative R&D projects. Projects can range from a short-term endeavour to bring an advance in a university laboratory to commercialization, to longer-term research in a technology of direct interest to an industrial partner.

Shared Equipment

NSERC participates in the financing of advanced research equipment for joint use by a university and an industrial partner. In principle, to apply for support, each partner must justify the need for a specific piece of equipment and guarantee each other access to it.



**NSERC
IRC
Industrial Research Chairs**

**University-Industry
Programs
NSERC
200 Kent Street
Ottawa, Ontario
K1A 1H5**

**Grants Officer
(613) 996-1898**

Researchers

NSERC, together with one or several industrial organizations, will share the cost of the salary of one or more research professors and their research associates as well as make contributions to equipment, infrastructure and operating costs.



**NSERC
RT
Research Training**

**University-Industry
Programs
NSERC
200 Kent Street
Ottawa, Ontario
K1A 1H5**

**Grants Officer
(613) 996-6424**

Industrial Research Fellowships

NSERC will contribute \$25,000 per annum for up to two years towards the salary of a recent doctoral graduate hired in a relevant industrial post.

Undergraduate Students Research Awards

NSERC will contribute for up to 4 months a portion of the salary of a research assistant working in an industrial laboratory.



**NSERC
TD
Technology Diffusion**

**University-Industry
Programs
NSERC
200 Kent Street
Ottawa, Ontario
K1A 1H5**

**Grants Officer
(613) 996-1898**

Personnel Exchanges

NSERC will contribute to the salary of a university researcher who spends time in an industrial research laboratory, or conversely an industrial scientist who spends leave as a visiting researcher in a Canadian university.

Workshops and Seminars

NSERC will contribute to the cost of organizing workshops and seminars that allow researchers from industry and university to transfer technological information. Joint university-industry exhibits at high-tech, science or export fairs can also be funded.

University-Industry Affiliations

NSERC will contribute towards the launch of university service programs directed at industry, including establishing liaison offices, circulating R&D bulletins and offering consulting services.



SSC CP Contracting-out Program

Science and Professional
Services Directorate
SSC

Place du Portage
Phase III 12C1

11 Laurier Street
Hull, Quebec
K1A 0S5

Director
Science Programs Branch
(819) 956-1784

Manager
Programs Support Group
Science Programs Branch
(819) 956-1780

Head
Vendor
Administration Section
Science Programs Branch
(819) 956-1398

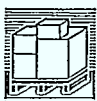
The contracting out policy of the Canadian government is to purchase its science and technology requirement from the private sector. The main objective of this policy is to encourage companies and organizations to develop their own expertise while filling government needs.

The Science and Professional Services Directorate of SSC is responsible for implementing this policy by providing a contractual service to other government departments and agencies. This means primarily soliciting and evaluating proposals, as well as negotiating, awarding and managing contracts through to completion.

In addition, the following services have been established to facilitate the implementation of the policy:

R&D Bulletin – A monthly publication which contains a science procurement update (science topics of current interest), projects for which proposals are expected to be invited, a statistical summary, and contracts awarded during the previous month.

National Supplier Information System (NASIS) – Constitutes the complete sourcing database used by contracting personnel within SSC. Catalogues information concerning the scientific and technological capabilities of the private sector and is used to help SSC identify sources of supply. In order to take full advantage of government procurement opportunities, suppliers should register themselves with NASIS.



SSC UP Unsolicited Proposals

Science Programs Branch
Science and Professional
Services Directorate
SSC

Place du Portage
Phase III 12C1

11 Laurier Street
Hull, Quebec
K1A 0S5

F. Hurens
(819) 956-1781

J. Lacelle
(819) 956-1784

An unsolicited proposal represents a written proposal submitted by an individual or organization in the private sector, on its own initiative to satisfy a science and technology requirement of one or more government departments in a unique manner. The proposal becomes an offer of services to the government.

The Science Programs Branch of the Science and Professional Services Directorate manages the UP Program, and acts as coordinator for the receipt, distribution, review and evaluation of proposals submitted.

Upon receipt, an unsolicited proposal is distributed through a well established network to potentially interested departments for review. In order to be accepted, an unsolicited proposal must, in principle, meet certain criteria.

- **Sponsorship:** The proposal must be sponsored by a federal government department.
- **Scientific Merit and Technical Feasibility:** The proposal must be judged to have scientific merit and to be technically feasible.
- **Uniqueness:** The proposal must be judged to be sufficiently unique to justify waiving the normal competitive procurement process.

If all the above criteria are met, the technical proposal becomes the statement of work and a contract is awarded by Supply and Services on behalf of the sponsoring department. If the sponsoring department does not have sufficient funds to immediately initiate the project, it may request financial assistance from the Unsolicited Proposals Fund (which currently stands at \$23 million dollars per year).

Guidelines for the Preparation of Unsolicited Proposals may be obtained by writing to the Science Programs Branch.



WD
WDP

Western Diversification Program

Western Diversification
Program
Suite 604
Cornerbrook Bldg
10179 - 105 Street
Edmonton, Alberta
T5J 3N1

(403) 495-4164 or
WD
Offices
Annex E








The aim of WDP is to create areas of economic growth in western Canada. The program funds eligible projects that develop new products, new markets or new technologies; enhance the productivity of industry; or offset imports from outside Canada.

The Program's role is to "top-up" rather than displace funding available from other sources. The WDP will provide funds only if the applicant has been unable to raise sufficient financing, if WDP assistance is essential for the project to proceed and if the project meets the principles of the WDP. In general, contributions are repayable.

Assisted projects could be in the areas of:

- new product development/commercialization;
 - plant establishment/expansion;
 - new market development/expansion;
 - industry-wide productivity improvement; and,
 - studies to establish the feasibility or potential of new products, new markets, new or expanded facilities, new technologies, or industry-wide productivity improvements.
-

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		ARC Animal Research Centre 28
		FRC Food Research Centre 29
		LRC London Research Centre 29
		PRC Plant Research Centre 29
		SHFRC Saint-Hyacinthe Food Research Centre 29
		SRS Saskatoon Research Station 29
		VRS Vancouver Research Station 29
CFS		CFS-M Canadian Forestry Service – Maritimes 30
		FPMI Forest Pest Management Institute 30
		GLFC Great Lakes Forestry Centre 30
		LFC Laurentian Forestry Centre 30
		PFC Pacific Forestry Centre 31
		PNFI Petawawa National Forestry Institute 31
EMR		MSL Mineral Sciences Laboratories 31
EC		BC Biotechnology Centre 32
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Agriculture Agri-Food Aquaculture Engineering Environmental Forestry Mining Pharmaceutical Regulatory Veterinary Waste Management

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Agr Agriculture Canada

Programs, Priorities and Strategies Directorate
Sir John Carling Bldg
930 Carling Avenue
Ottawa, Ontario
K1A 0C5

Collaborative Mechanisms

C.B. Willis
A/Director
Program Coordination
(613) 995-7084

- Contracted-out R&D Program
- Research Grants
- Assistance Programs

Research Activities

L. Benzing-Purdie
(613) 995-7084

- Resource and Support Research
 - Land Biological Resources
 - Water and Climate Biotechnology
 - Energy and Engineering Protection

R. Bouchard
(613) 995-7084

- Animal Productivity Research
 - Beef Poultry
 - Dairy Other Animals
 - Swine

W.J. Saidak
(613) 995-7084
C.B. Willis
(613) 995-7084

- Crop Productivity Research
 - Cereals Vegetables
 - Oilseeds Tree Fruits and Berries
 - Forage Ornamentals
 - Field Crops

E. Larmond
(613) 995-7084

- Food Research
 - Processing Equipment and Products
 - Safety and Nutrition
 - Storage

Research Centres

ADRI

Animal Diseases Research Institute
801 Fallowfield Road
P.O. Box 11300, Station H
Nepean, Ontario
K2H 8P9

P.R. Ide
A/Director
(613) 998-9320

ARC

Animal Research Centre
60 Birch Drive
Ottawa, Ontario
K1A 0C6

E.E. Lister
Director
(613) 993-6002

N.W. Tape
Director
(613) 995-3722

FRC
Food Research Centre
960 Carling Avenue
Ottawa, Ontario
K1A 0C6

H.V. Morley
Director
(519) 679-4452

LRC
London Research Centre
1400 Western Road
London, Ontario
N6A 5B7

W.B. Baier
Director
(613) 995-3700

PRC
Plant Research Centre
960 Carling Avenue
Ottawa, Ontario
K1A 0C6

R.R. Riel
Director
(514) 773-1105

SHFRC
Saint-Hyacinthe Food Research Centre
3600 Casavant Blvd. West
Saint-Hyacinthe, Quebec
J2S 8E3

J.R. Hay
Director
(306) 975-7014

SRS
Saskatoon Research Station
107 Science Crescent
Saskatoon, Saskatchewan
S7N 0X2

M. Weintraub
Director
(604) 224-4355

VRS
Vancouver Research Station
6660 N.W. Marine Drive
Vancouver, British Columbia
V6T 1X2



**Agr
CFS
Canadian Forestry Service**

Place Vincent Massey
351 St-Joseph Blvd.
Hull, Quebec
K1A 1G5

Collaborative Mechanisms

L.W. Carlson
Director, Research
(819) 997-1107

- Contracted-out R&D Program

Research Activities

- Tree Breeding
- Reforestation
- Tree Growth
- Fire Protection
- Spruce Budworm
- Energy from the Forest
- New Developments in Management, Protection, Ecosystem Research, Harvesting and Processing.

Research Centres

H. Oldham
Acting Director
(506) 452-3508

CFS-M
Canadian Forestry Service-Maritimes
P.O. Box 4000
Fredericton, New Brunswick
E3B 5P7

G.W. Green
Director
(705) 949-9461

FPMI
Forest Pest Management Institute
P.O. Box 490
Sault Ste-Marie, Ontario
P6A 5M7

R. Haig
Acting Director
(705) 949-9461

GLFC
Great Lakes Forestry Centre
P.O. Box 490
Sault Ste-Marie, Ontario
P6A 5M7

Y. Hardy
Director
(418) 648-3957

LFC
Laurentian Forestry Centre
1055 rue du P.E.P.S.
Sainte-Foy, Québec
G1V 4C7

R.C. Dobbs
Acting Director
(604) 388-0600

PFC
Pacific Forestry Centre
506 West Burnside Road
Victoria, British Columbia
V8Z 1M5

F.C. Pollett
Director
(613) 589-2880

PNFI
Petawawa National Forestry Institute
Chalk River, Ontario
K0J 1J0



EMR
Energy, Mines and Resources Canada

CANMET
Canadian Centre for Mineral and Energy Technology
555 Booth Street
Ottawa, Ontario
K1A 0G1

Collaborative Mechanisms

V. Sanmugasunderam
Asst. Program Director
Research Program Office
(613) 992-1244

- Contracted-out R&D Program

Research Centre

L.L. Sirois
Director
(613) 995-4088

MSL
Mineral Sciences Laboratories
555 Booth Street
Ottawa, Ontario
K1A 0G1

Research Activities

M.C. Campbell
(613) 996-2929

- Extractive Metallurgy Laboratory
 - Solution Purification
 - Leaching
 - Biotechnology
 - Pyrometallurgy
 - Physical Chemistry
 - Metallurgical Chemistry

H.F. Steger
(613) 995-4212

- Chemical Laboratory
 - Metals and Alloys
 - Ores and Fire Assay
 - Solution Chemistry
 - Optical Emission and NAA
 - Radiation and Mineral Physics
 - Radiometry, Fluorimetry

F.R. Campbell
(613) 996-5619

- Mineral Processing Laboratory
 - Ceramic
 - Process Mineralogy
 - Construction Materials
 - Ore Dressing



EC
Environment Canada

Conservation and Protection
Technology Development &
Technical Services Branch
Place Vincent Massey
351 St-Joseph Blvd.
Hull, Quebec
K1A 0H3

Collaborative Mechanisms

G.S. Hart
A/Director
(613) 994-2103
A. Townshend
Chief, Program Development
(613) 997-1823

- Contracted-out R&D Program
- Contracted-in R&D Program

Research Centres

M.J. Boddington
Chief
(613) 953-1652

BC
Biotechnology Centre
Commercial Chemicals Branch
14th Floor,
Place Vincent Massey
Hull, Quebec
K1A 0H3

Research Activities

- Regulations stipulating the pre-manufacture and pre-import notification requirements for biotechnology products.
- Monitoring techniques for genetically engineered micro-organisms
- Criteria for the containment and control of biotechnology products during manufacturing
- Ecosystem impact of genetically engineered micro-organisms

N. Bermingham
Director
(514) 651-4249

CBL
Captain Bernier Laboratory
1001 Pierre Dupuis Avenue
Port Saint-Laurent
Longueuil, Quebec
J4K 1A1

Research Activities

C. Blaise
Ecotoxicology
(514) 651-6862

- Bioassays for ecotoxicity

D.E. Egar
Director
(416) 336-4601

NWRI
National Water Research Institute
P.O. Box 5050, 867 Lakeshore Road
Burlington, Ontario
L7R 4A6

Research Activities

B.J. Dutka
Ecotoxicology
(416) 336-4923

- Lakes and Rivers Research
- Toxicant screening tests and techniques

H.A. Clarke
Director
(613) 997-1301

NWRC
National Wildlife Research Centre
Canadian Wildlife Service
100 Gamelin Boulevard
Hull, Quebec
K1A 0H3

Research Activities

- Wildlife Toxicology and Surveys
- Migratory Birds Surveys
- Toxicology Research
- Toxic Substances Evaluation & Monitoring

B.E. Jank
Director
(416) 336-4740

WTC
Wastewater Technology Centre
Canada Centre for Inland Waters
P.O. Box 5050, 867 Lakeshore Road
Burlington, Ontario
L7R 4A6

Research Activities

H. Melcer
Biological Processes
(416) 336-4546

- Biological Wastewater Treatment Processes
 - Degradation of chlorinated organics in soil
 - Application of high-rate anaerobic technology
-



F&O Fisheries and Oceans

Aquaculture & Resource Development Branch
Fisheries and Biological Sciences Directorate
Centennial Towers
200 Kent Street
Ottawa, Ontario
K1A 0E6

Collaborative Mechanisms

I.M. Price
Director
(613) 990-0275

- Contracted-out R&D Program
- Research Grants

Research Centre

E.M. Donaldson
Head, Fish Culture Research
(604) 666-7928

WVL
West Vancouver Laboratory
4160 Marine Drive
West Vancouver, British Columbia
V7V 1N6

Research Activities

- Selective breeding of salmon
 - Production of transgenic fish
 - Sex control of fish through biotechnology
 - Growth regulation and induction of ovulation in various fish
 - Protein and peptide uptake in fish
 - Strain evaluation in salmon
-



HW
Health and Welfare Canada
Health Protection Branch
Health Protection Building
Holland Avenue, Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Centres

DD **Drugs Directorate**

K. Bailey
Director
(613) 957-1058

Bureau of Drug Research
Frederick G. Banting Bldg.
Ross Avenue, Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Activities

- Wide spectrum of regulatory and research programs aimed at achieving the safe and efficacious use of drugs and cosmetics sold in Canada;
- Administration of the regulations to prevent the misuse and abuse of drugs.

J. Furesz
Director
(613) 957-8065

Bureau of Biologics
Virus Building
Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Activities

- Safety and reliability testing of biologicals licensed for sale in Canada;
- Development of regulatory controls for novel biotechnological substances.

EHD **Environmental Health Directorate**

P. Toft
A/Director
(613) 957-3133

Bureau of Chemical Hazards
Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Activities

- Safety testing of biotechnological products for environmental application, environmental and occupational chemistry, pesticides and consumer products;
- Development of regulations in above areas.

E.G. Létourneau
Director
(613) 954-6647

Bureau of Radiation and Medical Devices
775 Brookfield Road
Ottawa, Ontario
K1A 1C1

Research Activities

- Regulatory and research programs designed to ensure the safety and efficacy of medical devices and radiopharmaceuticals originating from biotechnological processes;
- Establishment of guidelines and regulations.

FCA

Federal Centre for AIDS

M. O'Shaughnessy
Director
(613) 957-0172

Laboratories and Research Services Bureau
Virus Building
Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Activities

- Detection
- Treatment
- Vaccine

FD

Food Directorate

J. Harwig
Director
(613) 957-0880

Bureau of Microbial Hazards
Frederick G. Banting Bldg.
Ross Avenue, Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Activities

- Research and evaluation program to achieve a high standard of safety and nutritional quality of the food supply;
- Establishment of guidelines and regulations;
- Advice and health hazard assessments to other federal, provincial and municipal agencies, health professionals, the food industry and the general population.

LCDC

Laboratory Centre for Disease Control

F. Ashton
A/Director
Bacteriology
(613) 957-1323

Bureau of Microbiology
LCDC Building
Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Research Activities

J. Weber
A/Director
Virology
(613) 957-8061

- Communicative Disease Epidemiology
- Chronic Disease Epidemiology
- Microbiology
- Medical Biochemistry

M.E. Kennedy
Chief
(613) 957-1771

Division of Biosafety
LCDC Building
Tunney's Pasture
Ottawa, Ontario
K1A 0L2

Consultative Activities

- Provides a national advisory service on safe operating procedures in laboratories for all sectors;
 - In collaboration with the MRC, reviewed and revised the 1980 Guidelines for the Handling of Recombinant DNA and Animal Viruses and Cells;
 - Provides an annual national biosafety course.
-



M. Brossard
Senior vice-president
(Laboratories) and
Vice-president
(Biotechnology)

NRCC National Research Council Canada Biotechnology Program

Building M-58
Montreal Road Campus
Ottawa, Ontario
K1A 0R6

Research Centres

ARL
Atlantic Research Laboratory
1411 Oxford Street
Halifax, Nova Scotia
B3H 3Z1

R.A. Foxall
Director
(902) 426-8278

Collaborative Mechanisms

M. MacKinnon
Industrial Liaison Officer
(902) 426-8589

- Collaborative Research
- Contracted-out R&D Program

Research Activities

J.P. van der Meer
(902) 426-8276

- Marine Biosciences
Floristics
Natural Products and Aquaculture Techniques
Molecular genetics

D.A. McCulloch
(902) 426-8264

- Biological Chemistry
Biological Role of Silicon
Biologically Active Compounds
Fungal Mycotoxins

W.D. Jamieson
(902) 426-8279

- Analytical Chemistry
Equipment and Instrumentation

B. Coupal
Director
(514) 496-6101

A. Marsan
Director, External Programs
(514) 496-6105

D.Y. Thomas
(514) 496-6156

G. André
(514) 496-6194

A.C. Storer
(514) 496-6256

L. Martin
(514) 496-6374

I.C.P. Smith
Director
(613) 990-0884

G.H.M. Adams
Industrial Liaison Officer
(613) 993-6005

G.H.M. Adams
(613) 993-6005

BRI

Biotechnology Research Institute
6100 Royalmount Avenue
Montreal, Quebec
H4P 2R2

Collaborative Mechanisms

- Collaborative Research
- Contribution Program
- Contracted-out R&D Program

Research Activities

- Genetic Engineering
Gene and DNA Synthesis
Yeast Genetics
Mammalian Cell Genetics
Virology
Prokaryotic Cell Genetics
- Biochemical Engineering
Biosensors and Instrumentation
Environmental Engineering
Process Systems and Engineering
Applied Microbiology
Separations Technology
Pilot Plant
- Protein Engineering
Protein Chemistry
Peptide Synthesis
Enzymology and NMR
Macromolecular Structure
Receptors
- Molecular Immunology

DBS

Division of Biological Sciences
Building M-54
Montreal Road
Ottawa, Ontario
K1A 0R6

Collaborative Mechanisms

- Collaborative Research
- Contribution Program
- Contracted-out R&D Program

Research Activities

- Medical Biosciences Laboratory
Molecular Biophysics
Cellular Oncology
Animal Physiology
Animal Facility

L. van den Berg
(613) 990-0854

- Carbohydrate Laboratory
Immunochemistry
Microbial Processes
Microbial Products
Polysaccharide Processing

P.R. Carey
(613) 990-0829

- Protein Laboratory
Protein Biochemistry and Spectroscopy
Biomolecular Modelling
Genetic Engineering of Proteins
Molecular Genetics
Protein Crystallography

W. F. Steck
Director
(306) 975-4191

PBI
Plant Biotechnology Institute
110 Gymnasium Road
Saskatoon, Saskatchewan
S7N 0W9

Collaborative Mechanisms

W.G.W. Kurz
Head, Biotechnology
Development Office
(306) 975-5570

- Collaborative Research
- Contribution Program
- Contracted-out R&D Program

K.K. Kartha
(306) 975-5575

Research Activities

W.L. Crosby
(306) 975-4187











- Cell Technology Laboratory
Crop Biotechnology
Conifer Biotechnology

E.W. Underhill
(306) 975-5273

- Gene Technology Laboratory
Plant Molecular Genetics
Plant Productivity Genes
 - Biological Chemistry Laboratory
Bio-organic Chemistry
Plant Cell Metabolism
-

BIOTECHNOLOGY NETWORKS

Contact

	AQUATECH	AQUATECH focuses on aquaculture technology and is coordinated by Fisheries & Oceans.	I.M. Price Fisheries & Oceans (613) 990-0275
	BIOCIDE	BIOCIDE concentrates on the improvement of <i>Bacillus thuringiensis</i> for pest control. An offshoot of BIOFOR, it is coordinated by NRCC.	R. Brousseau Biotechnology Research Inst. National Research Council Canada (514) 496-6152
	BIOCROP	BIOCROP focuses on plant strain development and is coordinated by Agriculture Canada.	W. Keller Agriculture Canada (613) 995-3700
	BIOFOR	BIOFOR is concerned with forestry and forest products and is coordinated by NRCC.	W. Campbell National Research Council Canada (613) 993-7659
	BIOMINET	BIOMINET coordinated by EMR concentrates on the treatment of metallic, industrial and energy minerals, and relevant environmental issues.	M. Campbell Energy, Mines & Resources Canada (613) 996-2929
 	BIONET	BIONET is concerned with human and animal health care products and is coordinated jointly by HWC and Agr for human and animal health care products respectively.	K. Bailey Health & Welfare Canada (613) 957-1058 J. Pantekoek Agriculture Canada (613) 995-5433
	BIONIF	BIONIF focuses on nitrogen fixation and is coordinated by Agriculture Canada.	L.R. Barran Agriculture Canada (613) 995-3700
 	BIOQUAL	BIOQUAL centers its activities on waste treatment, environmental quality and protection and is coordinated jointly by Environment Canada and NRCC.	P. Matteau National Research Council Canada (613) 993-7630

Founded	Members	Newsletter	Activities
1988	135	No newsletter – Communications as required	• Workshops
1984	25	–	• Two meetings per year
1983	185	–	• Workshops
1985	700	Newsletter (bi-monthly)	• Annual meeting • Workshops • Seminars
1983	530	Newsletter (quarterly)	• Annual Meeting • Workshops • Sessions at CSM and CIMM
1983	340	Newsletter (quarterly)	• Annual Meeting
1983	100	Newsletter (bi-annual)	• Meetings, workshops • May expand to include all microorganisms beneficial to plant growth
1986	350	–	• Annual Meeting • Workshops

ANNEX A



NRCC Provincial Coordinators IRAP Field Advisory Service

Newfoundland

National Research Council Canada
Viking Building
136 Crosbie Road
ST-JOHN'S, Newfoundland
A1B 3K3

Contact:
G.F. Cross
(709) 772-5228

Prince Edward Island

National Research Council Canada
35 First Avenue
West Royalty Industrial Park
CHARLOTTETOWN, Prince Edward Island
C1E 1B0

Contact:
W.A. Murphy
(902) 566-7642

Nova Scotia

National Research Council Canada
100 Fenwick Street
P.O. Box 790
DARTMOUTH, Nova Scotia
B2Y 3Z7

Contact:
D.P. Healey
(902) 426-3138

New Brunswick

National Research Council Canada
College Hill Road
P.O. Box 6000
FREDERICTON, New Brunswick
E3B 5H1

Contact:
R. Bourdage
(506) 459-8462

Quebec

National Research Council Canada
c/o CRIQ Building
8475 Christophe-Colomb, Room E58
MONTREAL, Quebec
H2M 2N9

Contact:
D. Ellis
(514) 283-8231

Ontario

National Research Council Canada
200 Town Centre Court
Suite 1101
SCARBOROUGH, Ontario
M1P 4X8

Contact:
J. Ratz
(416) 973-4483

Manitoba

National Research Council Canada
Industrial Technology Centre
1329 Niakwa Road East
WINNIPEG, Manitoba
R2J 3T4

Contact:
R. Clarke
(204) 945-6133

Saskatchewan

National Research Council Canada
15 Innovation Blvd.
SASKATOON, Saskatchewan
S7N 2X8

Contact:
T. Sipos:
(306) 975-4702

Alberta

National Research Council Canada
6815-8th Street N.E.
3rd Floor
CALGARY, Alberta
T2E 7H7

Contact:
A.W. Gilliland
(403) 297-2600

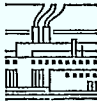
British Columbia

National Research Council Canada
3650 Westbrook Mall
VANCOUVER, British Columbia
V6S 2L2

Contact:
D. Mullan
(604) 666-7244

*For nearest NRCC Regional Office consult the yellow pages
of your telephone directory under Technology – Assistance*

ANNEX B



ISTC

**Industry, Science and Technology Canada
National Biotechnology Team**

Newfoundland

Industry, Science and Technology Canada
and International Trade Centre
90 O'Leary Avenue
P.O. Box 8950
ST-JOHN'S, Newfoundland
A1B 3R9

Contact:
P. Hearn
(709) 772-4281

Prince Edward Island

Industry, Science and Technology Canada
and International Trade Centre
134 Kent Street, Suite 400
P.O. Box 1115
CHARLOTTETOWN, Prince Edward Island
C1A 7M8

Contact:
S. Shepherd
(902) 566-7442

Nova Scotia

Industry, Science and Technology Canada
and International Trade Centre
1496 Lower Water Street
P.O. Box 940, Station "M"
HALIFAX, Nova Scotia
B3J 2V9

Contact:
J. Arseneau
(902) 426-9475

New Brunswick

Industry, Science and Technology Canada
and International Trade Centre
770 Main Street
P.O. Box 1210
MONCTON, New Brunswick
E1C 8P9

Contact:
Y. Lavallée
(506) 857-6472

Quebec

Industry, Science and Technology Canada
and International Trade Centre
800 Victoria Square
P.O. Box 247
MONTREAL, Quebec
H4Z 1E8

Contact:
S. Hébert
(514) 283-8813

Ontario

Industry, Science and Technology Canada
and International Trade Centre
1 Front Street West
4th Floor
TORONTO, Ontario
M5J 1A4

Contact:
M. Perek
(416) 973-5033
O. Corbu
(416) 973-5056

Manitoba

Industry, Science and Technology Canada
and International Trade Centre
330 Portage Avenue, 8th Floor
P.O. Box 981
WINNIPEG, Manitoba
R3C 2V2

Contact:
D. Cable
(204) 983-6033

Saskatchewan

Industry, Science and Technology Canada
and International Trade Centre
105-21st Street East
6th Floor
SASKATOON, Saskatchewan
S7K 0B3

Contact:
D. Tamney
(306) 975-5316

Alberta

Industry, Science and Technology Canada
and International Trade Centre
630-220 Fourth Ave S.E.
CALGARY, Alberta
T2P 3C3

Contact:
M. Goshulak
(403) 292-6409

British Columbia

Industry, Science and Technology Canada
and International Trade Centre
900-650 W. Georgia Street
P.O. Box 11610
VANCOUVER, British Columbia
V6B 5H8

Contact:
R. Farris
(604) 666-1409

Northwest Territories

Industry, Science and Technology Canada
and International Trade Centre
P.O. Box 6100
YELLOWKNIFE, Northwest Territories
K1A 1C0

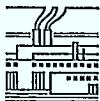
Contact:
D. Berthelet
(403) 920-8570

Yukon

Industry, Science and Technology Canada
and International Trade Centre
108 Lambert Street
Suite 301
WHITESHORE, Yukon
Y1A 1Z2

Contact:
L. Bagnell
(403) 668-4655

ANNEX C



FBDB Federal Business Development Bank Regional Offices

Atlantic

Federal Business Development Bank
Suite 1400
Cogswell Tower
Scotia Square
HALIFAX, Nova Scotia
B3J 2Z7

Contact:
Regional Director,
Management Services
(902) 426-7860

Quebec

Federal Business Development Bank
Suite 4600
800 Victoria Square
P.O. Box 190
MONTREAL, Quebec
H4Z 1C8

Contact:
Regional Director,
Management Services
(514) 283-3657

Ontario

Federal Business Development Bank
777 Bay Street, 29th Floor
TORONTO, Ontario
M5G 2C8

Contact:
Regional Director,
Management Services
(416) 973-0054

Prairie and Northern

Federal Business Development Bank
1200-155 Carlton Street
WINNIPEG, Manitoba
R3C 3H8

Contact:
Regional Director,
Management Services
(204) 983-7811

British Columbia and Yukon

Federal Business Development Bank
900 West Hastings
VANCOUVER, British Columbia
V6C 1E7

Contact:
Regional Director,
Management Services
(604) 666-7800

ANNEX D



ACOA Atlantic Canada Opportunities Agency ACOA Offices

If your project encompasses all of Atlantic Canada, contact the ACOA head office in Moncton. If it is specific to a single province, contact an ACOA account manager in the ACOA office in that province.

HEAD OFFICE

Atlantic Canada Opportunities Agency

P.O. Box 6051
770 Main Street, 10th Floor
MONCTON, New Brunswick
E1C 9J8

(Toll Free)
1-800-561-7862

REGIONAL OFFICES

Nova Scotia

ACOA
Suite 3000,
"The Brewery"
1489 Hollis Street
HALIFAX, Nova Scotia
B3J 3M5

(Toll Free)
1-800-565-1228

Enterprise Cape Breton

ACOA
P.O. Box 2001
15 Dorchester Street
SYDNEY, Nova Scotia
B1P 6K7

(Toll Free)
1-800-565-9460

Prince Edward Island

ACOA
134 Kent Street, Suite 503
CHARLOTTETOWN, Prince Edward Island
C1A 8R8

(Toll Free)
1-800-565-0228

New Brunswick

ACOA
590 Brunswick Street
P.O. Box 578
FREDERICTON, New Brunswick
E3B 5A6

(Toll Free)
1-800-561-4030

Newfoundland

ACOA
Box 67, Suite 805
Atlantic Place
215 Water Street
ST-JOHN'S, Newfoundland
A1C 6C9

(Toll Free)
1-800-563-5767

ANNEX E



WD Western Economic Diversification Canada WD Offices

HEAD OFFICE

Western Economic Diversification Canada
Suite 604, Cornerpoint Building
10179 – 105 Street
EDMONTON, Alberta
T5J 3N1

(403) 495-4164

REGIONAL OFFICES

British Columbia

WD
9th Floor
750 West Pender Street
VANCOUVER, British Columbia
V6C 2T8

(604) 666-6256

Saskatchewan

WD
Suite 601, S.J. Cohen Building
119 – 4th Avenue South
P.O. Box 2025
SASKATOON, Saskatchewan
S7K 3S7

(306) 975-4373

Manitoba

WD
Suite 712, The Cargill Building
240 Graham Avenue
WINNIPEG, Manitoba
R3C 0J7

(204) 983-4472

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