

Industry, Science
and Technology Canada

Industrie, Sciences
et Technologie Canada

National Research
Council Canada

Conseil national
de recherches Canada

PARTNERSHIPS IN BIOTECHNOLOGY

IC



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 provides contact points for further information and assistance.

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

This document is an update of the September 1988 version. Comments or requests for additional copies may be addressed to:

Biotechnology Directorate
Chemicals and Bio-Industries
Branch
Industry, Science and Technology
Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

IRAP - National Elements
National Research Council
Canada
Building M-55
Montreal Road
OTTAWA, Ontario
K1A 0R6

Tel.: (613) 954-4715
Fax: (613) 952-4209

Tel.: (613) 993-1790
Fax: (613) 952-1079

Partnerships in Biotechnology

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

March 1992

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TECHNOLOGY CANADA
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TECHNOLOGIE CANADA

PARTNERSHIPS IN BIOTECHNOLOGY

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

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Symbols Identifying Federal Departments and Agencies in This Guide



Agr Agriculture Canada



HWC Health and Welfare
Canada



ACOA Atlantic Canada
Opportunities Agency



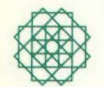
ISTC Industry, Science and
Technology Canada



CIDA Canadian International
Development Agency



Inv Investment Canada



CCAC Consumer and Corporate
Affairs Canada



Lab Labour Canada



EMR Energy, Mines and
Resources Canada



MRC Medical Research
Council of Canada



EC Environment Canada



NRC National Research
Council Canada



EAITC External Affairs and
International Trade
Canada



NSERC Natural Sciences and
Engineering Research
Council of Canada



F&O Fisheries and Oceans



RCT Revenue Canada
Taxation



ForCan Forestry Canada



SSC Supply and Services
Canada












WD Western Economic
Diversification Canada



Federal Programs and Services

INDEX TO FEDERAL PROGRAMS AND SERVICES BY ACTIVITY SUPPORTED

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Research	Technology Transfer	Development	Marketing	Production	Investment	International Activities

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**Agr
PBR
Plant Breeders' Rights**

Plant Breeders' Rights
Office
Agriculture Canada
K. W. Neatby Building
960 Carling Avenue
OTTAWA, Ontario
K1A 0C6

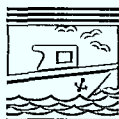
Tel: (613) 995-7900
Fax: (613) 992-5219

New plant varieties of some species (crops) may be protected under the *Plant Breeders' Rights Act*. Varieties must be new (have not been sold contrary to the legislation), distinct (different from all other varieties), uniform (all plants are the same), and stable (remain the same each generation). The owner of the variety must conduct tests and submit comparative data. The descriptive data will be published in the *Plant Varieties Journal* and will be open for objection for six months before a right will be granted.

The right will give the owner control over the multiplication and sale of reproductive material. Protection may last up to 18 years. It is the responsibility of the owner to enforce the right through the civil courts. The right does not prohibit someone from using the variety for plant breeding or for saving and growing seed for their own use.

Protection is available to nationals of Canada and nationals of countries that are members of the International Union for the Protection of New Varieties of Plants (UPOV).

Further publications may be obtained from the Plant Breeders' Rights Office.



**ACOA
AAP
ACOA Action Program**

ACOA Action Program
Blue Cross Centre
644 Main Street
MONCTON
New Brunswick
E1C 9J8

Tel.: (506) 851-2271
Toll-free:
1-800-561-7862
Fax: (506) 851-7403
or ACOA Offices
listed in Annex E

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



**CIDA
ICD
Industrial Co-operation Division**

Canadian International
Development Agency
200 Promenade du
Portage
HULL, Quebec
K1A 0G4
Tel.: (819) 997-7901
Fax: (819) 953-5024

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 Industrial Co-operation Program 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 Co-operation Program financial incentive is offered to Canadian private sector initiatives in long-term business co-operation 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 investment-oriented programs assist eligible Canadian companies, particularly manufacturers, to conduct preliminary or in-depth studies on the possibility of long-term co-operation agreements with developing country businesses. It may also pay certain costs incurred when a joint venture is set up with entrepreneurs in a developing country.

The Industrial Co-operation Program is divided into three sections:

• **The Investment Section**

- Starter Study (SS) provides support for a preliminary analysis of the factors relevant to the establishment of a long-term business co-operation arrangement in a developing country;
- 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; and
- Project Support 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 Professional Section**

The services-oriented programs help eligible organizations (mainly consulting firms, financial institutions and business associations) to conduct studies and provide professional guidance and advice to potential clients in developing countries.

Assistance is available through five mechanisms:

- capital project preliminary study (up to \$350,000)
- capital project detailed study (up to \$500,000)
- capital project support (up to \$50,000)
- industrial plant rehabilitation (up to \$500,000)
- industrial planning and development (up to \$500,000)

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.

• **Specialized Activities**

The specialized activities-related programs support other activities that could have a major developmental and economic impact on developing countries. They include:

- seminars
- missions
- technology transfer exhibitions
- specialized training institutes
- CIDA's Trust Fund for the International Finance Corporation
- Canada's Trade Facilitation Office
- the Canadian Fund for Local Initiatives



CCAC

IPD

Intellectual Property Directorate

Enquiries Section
Intellectual Property
Directorate
Consumer and
Corporate Affairs
Canada
Place du Portage
HULL, Quebec
K1A 0C9

The Intellectual Property Directorate, which is part of Consumer and Corporate Affairs Canada, administers legislation dealing with patents, trademarks, timber marks, copyright and industrial designs.

The Patent Branch examines applications for patents to ensure compliance with Canadian laws and practice, grants patents accordingly, maintains search files of Canadian and foreign patents, grants compulsory licences, and disseminates technological information found in patents.

Tel.: (819) 997-1936
Fax: (819) 953-7620

The Trade Marks Branch examines applications for the registration of trademarks, registers the marks, registers licensed users of registered trademarks, and maintains registers and indexes for search purposes.

The Copyright and Industrial Design Branch is responsible for the registration of copyrights and industrial designs. Because copyright protection is automatic under Canadian law, there is no examination of copyright applications other than to assess the suitability of subject matter for registration.



**CCAC
PIE
Patent Information Exploitation**

Intellectual Property
Directorate
Information and
Technology Exploitation
Branch

Consumer and
Corporate Affairs
Canada
Place du Portage
HULL, Quebec
K1A 0C9

Tel.: (819) 997-1936
Fax: (819) 953-7620

The PIE program, established by the Intellectual Property Directorate of Consumer and Corporate Affairs Canada aims to stimulate technology transfer, promote industrial innovation, and provide research and development support through the exploitation of technological information contained in patents.

The PIE Program is directed at small and medium-sized businesses, research establishments, and government agencies. Under this program, the Patent Office offers a state-of-the-art patent search service designed to help clients discover solutions to technical problems, avoid duplication of R&D, generate ideas for new products and processes, locate domestic and foreign technologies for licensing, and evaluate alternative technologies. To ensure convenient access to PIE Program services, the Intellectual Property Directorate has created a nation-wide network of intermediaries, including provincial research organizations, industrial innovation centres, and various other federal and provincial agencies through which clients can request patent information.

The PIE Program also includes a Public Education and Awareness component that provides specially trained experts to speak on subjects relating to intellectual property at selected meetings, conferences and seminars.



**EMR
BDP
Bioenergy Development Program**

Bioenergy Development
Program
Alternative Energy
Division
CANMET (EAETB)
Energy, Mines and
Resources Canada
580 Booth Street
OTTAWA, Ontario
K1A 0E4

Tel.: (613) 996-6162
Fax: (613) 996-9416

The BDP provides financial support for the research, development and demonstration of new methods and technologies aimed at substituting biomass (e.g. 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.

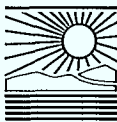


**EMR
IERD
Industry Energy Research and
Development**

Energy Efficiency
Division
CANMET (EAETB)
Energy Mines and
Resources Canada
580 Booth Street
OTTAWA, Ontario
K1A 0E4

Tel.: (613) 996-5419
Fax: (613) 996-9416

The IERD program supports Canadian industry in undertaking research and development projects which lead to new and improved processes, equipment, products and systems that will increase energy efficiency throughout industry, and encourages the use of technology developed under the program. Contributions 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 for approved projects.



**EC
DRECT
Development and Demonstration of
Resource and Energy Conservation
Technology**

DRECT Program
Technology
Development
and Technical
Services Branch
Conservation and
Protection
Environment Canada
OTTAWA, Ontario
K1A 0H3

Tel.: (819) 953-7827
Fax: (819) 953-4705

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.

EDC Export Development Corporation

Export Development
Corporation
151 O'Connor Street
P.O. Box 655
OTTAWA, Ontario
K1A 1K3

Export Development Corporation (EDC) is Canada's official export credit agency, responsible for providing export credit insurance, loans, guarantees and other financial services for Canada's exporting community. EDC's financial services help Canadian exporters to compete effectively in international markets by reducing the financial risks associated with export sales and by funding foreign buyers of Canadian exports. EDC also offers insurance for Canadian foreign investment as well as bonding and surety services for Canadian exporters.

For further information, contact the nearest EDC regional office:

Halifax: Tel.: (902) 429-0426
Fax: (902) 423-0881

Montreal: Tel.: (514) 283-3013
Fax: (514) 878-9891

Ottawa: Tel.: (613) 598-2992
Fax: (613) 237-2690

Toronto: Tel.: (416) 973-6211
Fax: (416) 862-1267

London: Tel.: (519) 645-5828
Fax: (519) 645-5580

Winnipeg: Tel.: (204) 983-5114
Fax: (204) 983-2187

Calgary: Tel.: (403) 292-6898
Fax: (403) 292-6902

Vancouver: Tel.: (604) 666-6234
Fax: (604) 666-7550

Publication: *EDC Today*, published six times a year by the
Corporate Communications Department, Export Development
Corporation.



**EAITC
CCC
Canadian Commercial Corporation**

Canadian Commercial
Corporation
11th Floor
50 O'Connor Street
OTTAWA, Ontario
K1A 0S6

Tel.: (613) 996-0034
Fax: (613) 995-2121

CCC is a Crown corporation established to assist in the development of trade between Canada and other nations. Within this broad mandate, the Corporation serves as prime contractor to facilitate the export of a wide range of goods and services from Canadian sources.

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 and 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.



**EAITC
IDRC
International Development Research
Centre**

Communication
Division
International
Development
Research Centre
P.O. Box 8500
OTTAWA, Ontario
K1G 3H9

Tel.: (613) 236-6163
ext. 2569
Fax: (613) 238-7230

IDRC is a public corporation created by the Parliament of Canada that helps researchers in developing countries find their own solutions to development problems through the application of science and technology. Research is funded on a per-project basis and carried out by developing countries' recipients independently or, occasionally, in collaboration with Canadian partners. The Centre also helps create and support international research networks.

The fields of investigation to which IDRC gives its financial and professional support include agriculture, health, social sciences, information sciences, earth and engineering sciences, training, and communications.

A portion of IDRC's Fellowships and Awards is 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 publishes *IDRC Reports*, a quarterly magazine available in English, French, and Spanish; an Annual Report; various information brochures; monographs detailing research results; technical reports, training manuals, bibliographies, and conference proceedings resulting from research projects sponsored by IDRC; and films, videos, slides, and other visual materials demonstrating the work of researchers.



EAITC

JSTF

Japan Science and Technology Fund

Federal and provincial government applications:

North Asia Relations
Division (PNR)
Japan Science and
Technology Fund
External Affairs and
International Trade
Canada
125 Sussex Drive
OTTAWA, Ontario
K1A 0G2

Tel.: (613) 996-0980
Fax: (613) 943-8167

Industry applications:

Technology Outreach
Directorate
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-2903
Fax: (613) 992-7499

University applications:

International
Programs
Natural Sciences and
Engineering Research
Council
200 Kent Street
OTTAWA, Ontario
K1A 1H5

Tel.: (613) 995-1818
Fax: (613) 992-5337

The Japan Science and Technology Fund (JSTF) was created to enhance Canada's scientific and technical base by expanding mutually beneficial collaboration with Japan. The Fund will promote joint technological development and help to create strategic partnerships. Its primary objectives are to:

- increase the participation of Canadian scientists and engineers in relevant world-class Japanese research and technology development programs and projects;
- train highly qualified personnel in state-of-the-art Japanese research facilities and thereby fill identified gaps in Canada's scientific and technological capabilities;
- facilitate access to Japanese technologies and industrial laboratories considered important to the competitiveness of Canadian industry; and
- collaborate in research, standards setting and similar initiatives to facilitate exports to Japan.

The Fund supports collaborative research and development projects, researcher visits, research exchanges, Japanese language training as well as infrastructure support for Canadian research associations wishing to develop closer links with their Japanese counterparts.

The Program is jointly managed by EAITC and ISTC and delivered in collaboration with NSERC.



EAITC
PEMD
Program for Export Market Development

Export and
Investment Programs
Division (TPE)
External Affairs and
International Trade
Canada

125 Sussex Drive
OTTAWA, Ontario
K1A 0G2

Tel.: (613) 944-0017
Fax: (613) 995-5773
or International Trade
Centres listed in
Annex B

PEMD's objective is to increase Canadian exports. This is accomplished by sharing the costs of various types of export promotion activities, such as: visits, trade fairs, missions, bidding on specific projects, that businesses could not or would not undertake alone.

For further information on PEMD, or to obtain a copy of the program handbook, please contact the appropriate International Trade Centre, located in the regional offices of Industry Science and Technology Canada as listed in Annex B.



EAITC
TIP
Technology Inflow Program

Export and
Investment Programs
Division (TPE)
External Affairs and
International Trade
Canada
125 Sussex Drive
OTTAWA, Ontario
K1A 0G2

Tel.: (613) 992-7883
Fax: (613) 995-5773

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

- TIP Advisory Services are provided by specially trained Technology Development Officers (TDOs) stationed in 39 Canadian diplomatic posts 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 co-operative R&D projects (this component of TIP is expected to be reopened in 1992).

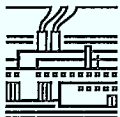


**ForCan
ENFOR
Energy from the Forest**

ENFOR
Science and
Sustainable
Development
Directorate
Forestry Canada
351 St. Joseph
Boulevard
HULL, Quebec
K1A 1G5

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 (including means of improving growth through biotechnology), harvesting, 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.

Tel.: (819) 997-1107
Fax: (613) 990-3437



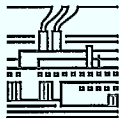
**ISTC
BD
Biotechnology Directorate**

Biotechnology
Directorate
Chemicals and
Bio-Industries Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-4715
Fax: (613) 952-4209
or ISTC Regional
Offices listed in
Annex A

The Biotechnology Directorate is the focal point within ISTC for policy development, advocacy and support for industrial applications in biotechnology. 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 provides secretariat and policy development/analysis support to the National Biotechnology Advisory Committee and it co-ordinates the federal interdepartmental activities under the National Biotechnology Strategy, including support for the eight Networks described on page 61. It provides funding support under the Strategic Technologies Program - Biotechnology Component to industry-led alliances to carry out research and development or technology application projects in 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.



ISTC BOSS Business Opportunities Sourcing System

BOSS
Business Services
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

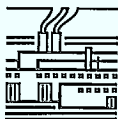
Tel.: (613) 954-5031
Fax: (613) 954-1894
or ISTC Regional
Offices listed in
Annex A

BOSS is an authoritative database on Canadian companies, their products and the markets they serve. The data bank established by ISTC profiles over 30,000 Canadian manufacturers and service companies.

Information on individual manufacturing, service and international trading companies is incorporated into a system that identifies Canadian suppliers. Not only can individual firms list their products and services but also they can use the system to identify potential new customers for their own products and services.

A BOSS listing ensures that it will automatically be included in *WIN Exports*, a directory of External Affairs and International Trade Canada. EAITC trade commissioners around the world are constantly using the directory to identify Canadian companies that might be able to take advantage of foreign market opportunities.

There is no charge for a company listing but the responsibility for inclusion in BOSS rests with the company. Registration and subscription forms are available from ISTC Regional Offices, Business Service Centres, or directly from ISTC, Ottawa.

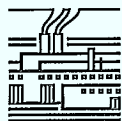


ISTC CABE Canada Awards for Business Excellence

CABE
Business Services
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-4079
Fax: (613) 952-8419
or ISTC Regional
Offices listed in
Annex A

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



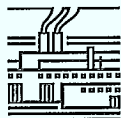
ISTC CFTCP Canadian Fishery Technology Consortium Program

Program Co-ordinator
Canadian Fishery
Technology Consortium
Program
Industry, Science and
Technology Canada
5th Floor, Central
Guaranty Trust Building
1801 Hollis Street
P.O. Box 940, Station M
HALIFAX, Nova Scotia
B3J 2V9

Tel.: (902) 426-9955
Fax: (902) 426-2624

CFTCP fosters collaborative research and development projects in the fishery sector. It is a component of a national program called the Fishery Products Sector Campaign, which was launched in 1990 by Industry, Science and Technology Canada to promote Canadian competitiveness in fishery products and long-term strategic direction for the fishing industry.

CFTCP encourages and supports the development and application of technology. It is designed to enhance the international competitiveness of this sector. Through joint government and industry initiative, consortia consisting of individual firms, research institutes and other interested parties are encouraged to propose specific research projects of interest to industry. Market-driven research and development projects geared towards the overall improvement of the technological capabilities of the fishery sector in Canada are identified and promoted. Public funds are used to support private sector investment towards research and development in all aspects of the fishery, from harvesting through processing, resource utilization and waste management.



ISTC dISTCcovery

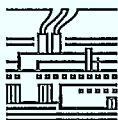
Industry, Science and
Technology Canada
Market Intelligence
and Technology
Opportunities Division
Services to Business
Branch
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-4970
Fax: (613) 954-5463
or ISTC Regional
Offices listed in
Annex A

dISTCcovery is a service providing information on more than 25,000 manufacturing licensing opportunities from worldwide sources. This service is designed to create industry awareness of the worldwide supply of transferable technology available through licensing and joint ventures. dISTCcovery introduces Canadian companies to contacts from around the world who are willing to license the rights to manufacture their new products and to use their processes and technologies.

A Canadian company can also use dISTCcovery to promote its unique product or process for licensing internationally.

Access to this service can be obtained through ISTC Regional Offices or directly from ISTC in Ottawa.



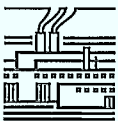
**ISTC
EDP
Enterprise Development Program**

Industry, Science and
Technology Canada
Suite 1200
880 Victoria Square
P.O. Box 247
MONTREAL, Quebec
H4Z 1J2

Tel.: (514) 283-8813
Fax: (514) 283-3302

The five-year program is part of the Canada-Quebec Subsidiary Agreement on the Economic Development of the Regions of Quebec.

It provides assistance to business within the manufacturing sector, processing sector and certain other sectors in areas designated as resource regions in Quebec. It funds a variety of activities related to the development of enterprises, including travel for conducting research related to technology transfer.



**ISTC
ETCP
Environmental Technology
Commercialization Program**

Environmental Affairs
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-3242
Fax: (613) 954-3430

The Environmental Technology Commercialization Program provides leverage funding over a six-year period to accelerate the development and demonstration of commercially viable environmental technologies. This program, which draws on \$80 million in federal government funding, is expected to attract a further \$150 million from the private sector.

The program has the following objectives:

- utilize pilot and commercial-scale projects to demonstrate new technologies to solve environmental problems
- enhance industrial competitiveness
- capitalize on domestic and international market opportunities

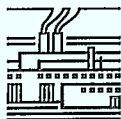
Most projects are undertaken by strategic alliances and consortia which optimize the synergy of the various participants in the environmental industry, e.g., users, suppliers, services, universities and technical laboratories. The program does not fund basic research but is designed specifically to facilitate the development and commercialization of environmental technologies. Projects must lead to and/or be related to first-time pilot or full-scale demonstrations, and must be clearly supportive of the guiding environmental or industrial priorities, such as clean process technologies, waste reduction and recycling, air and pollution control, and water conservation.

The program has two elements:

- **Environmental Development/Demonstration Projects**
This component funds eligible environmental development/demonstration projects, focusing on hastening the application and commercialization stage of leading-edge technologies needed for a range of new and/or improved products and processes.

• Related Studies

Funding is available for studies in support of projects and dealing with formation of alliances, preparation of business plans to implement projects, and investigation of the feasibility of the technical aspects of a project.



ISTC
ETDP

**St. Lawrence River Environment
Technology Development Program**

ETDP National
Co-ordinator
Environmental
Industries and
Projects Division
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-3225
Fax: (613) 954-3430

The federal government is implementing a vigorous plan to protect, conserve and restore the St. Lawrence River, one of North America's great waterways.

A total of \$110 million will be spent over a five-year period, which continues until 1993, on an Action Plan led by Environment Canada. There are four components to the Action Plan: protection, restoration, conservation and environmental technologies. ISTC's Environmental Technology Development Program falls under the last component, as does a complementary Environment Canada program. These two programs are co-ordinated to ensure the most effective use of funds.

The ETDP is a \$20 million, five-year program implemented to reduce industrial pollution on the St. Lawrence River and to develop and improve pollution abatement technologies applicable to other Canadian or international waters.

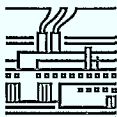
Under the terms of the program, contributions of up to 50 percent of the eligible costs of a project may be provided, to a maximum of \$2 million. For feasibility studies, the ETDP covers up to 75 percent of the eligible costs, to a maximum of \$100,000 per study.

Projects must involve the development and application of new or improved technologies that limit or eliminate industrial pollution of the St. Lawrence River. The technologies also must be of interest to other regions of the country or have export potential.

The projects could be designed to reduce or eliminate toxic materials discharged from industrial operations or to decontaminate waste and contaminated sites. For example, projects such as the following would be eligible:

- internal modification of manufacturing process to eliminate toxic by-products
- improved technology for the recycling of industrial wastes
- improved techniques for the treatment of effluent

Feasibility studies, involving commercial and technical assessments of projects, can be carried out by the applicant or by subcontractors. Any taxable corporation, provincial Crown corporation or non-profit organization operating in Canada may apply.



ISTC
FBDB
Federal Business Development Bank

FBDB Head Office
800 Square Victoria
MONTREAL, Quebec
H4Z 1L4

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:

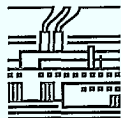
Tel.: (514) 283-5904
Fax: (514) 283-0617

- Financial services, such as term loans, venture loans, export guarantees and a financial planning program.
- Investment banking services, to obtain equity financing through FBDB's purchase of shares in a business or through working with other financial institutions in the private sector.
- Management services, offering business counselling, training and information for small and medium-sized businesses in Canada through the following services and programs:

CASE
Federal Business
Development Bank
3rd Floor
280 Albert Street
OTTAWA, Ontario
K1P 5G8

Tel.: (613) 995-5068
Fax: (613) 995-9045
or FBDB Regional
Offices listed in
Annex C

- Counselling Assistance to Small Enterprise (CASE). More than 1500 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.
 - Training seminars
 - Workshops
 - Owner/manager courses
 - Strategic business planning service
-



ISTC FedNor The Federal Economic Development Initiative for Northern Ontario

FedNor Head Office
302 Queen Street East
SAULT STE. MARIE
Ontario
P6A 1Z1

The objective of FedNor is to encourage growth and diversification of the Northern Ontario economy by providing financial assistance and other support to small and medium-sized businesses.

The following assistance programs are offered:

Tel.: (705) 942-1347
Toll-free:
1-800-461-6021
Fax: (705) 942-5434

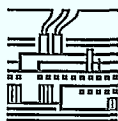
FedNor
Northeastern Ontario
District Office
Suite 407
30 Cedar Street
SUDBURY, Ontario
P3E 1A4

Tel.: (705) 671-0711
Toll-free:
1-800-461-4079
Fax: (705) 671-0717

FedNor
Northwestern Ontario
District Office
Suite 209
710 Victoria Avenue East
THUNDER BAY, Ontario
P7C 5P7

Tel.: (807) 623-4436
Toll-free:
1-800-465-6870
Fax: (807) 623-5392

- The Rural Small Business Program provides assistance to new and existing small businesses in rural Northern Ontario. It helps establish new facilities and modernize or expand existing operations. Eligible sectors include logging and forestry; manufacturing or processing; aquaculture; wholesale trade; storage and warehousing; computers and related services; retail trade; repair services and a select number of other service industries.
- The Core Industrial Program provides assistance for new and existing businesses in Northern Ontario. Assistance can be provided in establishing new facilities, expansion and modernization of existing facilities, research and development of new products and processes, market development, and feasibility studies as well as quality management initiatives. Eligible sectors include manufacturing or processing; aquaculture; repair; and other business services.
- The FedNor Loan Insurance Program encourages private sector capital investment in viable commercial operations. Designed to complement other FedNor financial assistance programs, it assists eligible businesses in Northern Ontario to obtain long-term financing that would otherwise be unavailable. Eligible business sectors include aquaculture, specified agricultural and business services, commercial research and development facilities, forestry, manufacturing and packaging, mining, storage and warehousing, recreational facilities, tourism accommodation, and food and beverage services.
- The Market Access Program is a co-operative effort between Supply and Services Canada and FedNor to develop the supplier base in Northern Ontario. Its main goal is to increase purchases by the federal government of goods and services from businesses in the region. The program provides information on selling to the federal government (how to bid and what to sell) and assists in upgrading the quantity and quality of supplier facilities. The FedNor Information Centre offers a wealth of information on Northern Ontario companies as well as federal contracts currently available, general information on programs and services to assist businesses, and a referral system for other avenues of assistance.



ISTC FIB Forest Industries R&D and Innovation Program

Forest Industries
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

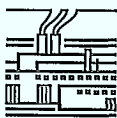
Tel.: (613) 954-3127
Fax: (613) 954-3079

The Program was developed to enhance the international competitiveness of forest and related machinery industries by supporting the development, application, promotion and diffusion of research and innovation technology in Canada.

Support will be provided for alliances among companies, universities or research institutes.

The Program supports two types of alliances:

- Research and Development Alliances, in which a company shares risks and works with one or more companies, universities or research institutes on pre-commercial R&D to develop the technology base needed for a range of new or improved products and processes.
- Technology Application Alliances, in which at least two companies engage in complementary activities and one or more other organizations share risks and work jointly on pre-commercial technology development and related studies to achieve the following objectives: to determine the production, economic or market feasibility of new technological products or processes; to develop standards needed to permit technology applications; or to demonstrate to potential users in Canada the feasibility of leading-edge technology.



ISTC IC Interfirm Comparisons

Interfirm Comparisons
Productivity
Improvement Service
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-4971
Fax: (613) 954-5463

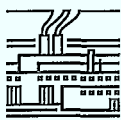
The Interfirm Comparisons service offered by Industry, Science and Technology Canada provides companies with an objective, professional and confidential analysis of where they stand in relation to their competitors. It also provides a clear indication of which aspects of a company's operations need to be improved.

Private sector consultants hired by ISTC visit each participating firm to gather data on both productivity and profitability. Companies are compared with their peers in the same sector with particular emphasis on the following four criteria: labour productivity, capital productivity, cost control and management of current assets.

Some 30 standardized management ratios are used to assess these aspects of company performance. For example, cost ratios cover key production and operating costs, and labour productivity is measured

by value-added per hour or the number of units produced per production employee.

The Interfirm Comparisons service promotes the use of such productivity measurement techniques and their integration with profitability measures. It is also intended to provide ISTC with information about industry sectors that is useful in developing relevant policies. The ultimate goal of the service is to support industry's efforts to enhance its competitiveness in domestic and international markets.

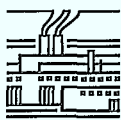


ISTC IOI Information on Imports

Market Information
and Analysis
Business Services
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Information on Imports into Canada is a free service that provides strategic intelligence for companies wishing to manufacture in Canada regarding 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.

Tel.: (613) 954-4970
Fax: (613) 952-8419



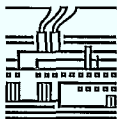
ISTC MIS Market Intelligence Service

Market Intelligence
and Technology
Opportunities Division
Services to Business
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

The Market Intelligence Service publishes reports and provides information on the Canadian and U. S. markets for specific products (as opposed to industry sectors). The reports include detailed analyses of specific products that could lead to new or expanded manufacturing in Canada. The type of information that is available includes Canadian imports by country of origin and province of clearance; Canadian importers; foreign exporters to Canada; Canadian suppliers; Canadian exporters; tariffs; and U. S. imports by country of origin and state of entry.

Tel.: (613) 954-4970
Fax: (613) 954-5463

This service is free of charge. Information is available on request. Previously published reports are available through ISTC Business Service Centres or directly from the Market Intelligence Service.



ISTC
MSDP
Microelectronics and Systems
Development Program

Co-ordinator
Information
Technologies
Industry Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-3470
Fax: (613) 952-8419

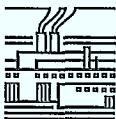
MSDP is a cost-sharing program that provides financial support to encourage Canadian companies to undertake technologically innovative projects in microelectronics and systems development which will improve the international competitiveness of the Canadian manufacturing, processing or service industries.

To be eligible for funding, projects must involve the research and development of innovative microelectronic components or systems based on advanced microelectronics for application in the manufacturing, processing or service industries, such as:

- 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 as well as of companies undertaking the development of the new systems and technologies.

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



ISTC
SBLA
Small Business Loans Administration
(Business Improvement Loans)

Small Business Loans
Administration
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-5540
Fax: (613) 952-8779

The *Small Businesses Loans Act* 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 one percent to small business enterprises having an estimated annual gross revenue not exceeding \$2 million. The Act provides for the sharing of loan losses, if any, between the lenders and the federal government.

Business Improvement Loans are available for the following purposes:

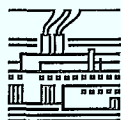
- fixed or movable equipment, including the cost of installation of fixed equipment and the renovation, improvement or modernization of equipment

or contact the lending
institution of your own
choice.

- premises in which the business is, or is about to be, carried on or their construction, improvement or modernization
- land necessary 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 Act may not exceed \$100,000.

All chartered banks and Alberta Treasury Branches are authorized to make business improvement loans under the provisions of the Act. Loans may also be made by credit unions, caisses populaires and other co-operative societies, trust companies, loan companies, and insurance companies which have applied and have been designated as lenders under the Act. Loans are made by these institutions without prior reference to ISTC.



ISTC STP - Biotechnology Component Strategic Technologies Program

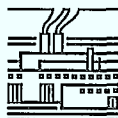
See Regional Offices
listed in Annex A

The Strategic Technologies Program is specifically aimed at encouraging alliances through financial assistance for industry-led projects undertaken to develop and apply biotechnology, advanced industrial materials or information technologies. These technologies are considered strategic because they have tremendous potential to enhance international competitiveness across many industrial sectors.

The following types of alliances are supported under the program:

- Research and Development Alliances in which a Canadian-based company shares the risks and benefits of a project by working with one or more companies, universities or research institutes on leading-edge, pre-commercial biotechnology research and development to create the knowledge base needed for a range of new or improved products or process.
- Technology Application Alliances in which one Canadian-based company with at least one other company shares the risks and benefits of a project by working jointly on the pre-commercial phase of product or process development based on leading-edge biotechnology applications. Partners in this type of alliance can be users or developers of technology.

STP also provides assistance for preliminary studies and analyses to resolve a wide variety of issues prior to the launch of an alliance project. Studies may be undertaken to answer questions relating to the feasibility of undertaking an alliance project such as identifying strategic partners, assessing the technical or business feasibility of a project or determining the status of intellectual property.



ISTC
TOP
Technology Outreach Program

TOP Technology
Outreach Directorate
Services to Business
Branch
Industry, Science and
Technology Canada
235 Queen Street
OTTAWA, Ontario
K1A 0H5

Tel.: (613) 954-3466
Fax: (613) 992-7499

TOP is designed to improve the productivity and competitiveness of Canadian businesses, particularly small and medium-sized ones, by supporting Technology Centre activities that accelerate the acquisition, development and diffusion of technology and critical management skills.

Three types of support are available under TOP:

- start-up funds to help Technology Centres undertake priority outreach activities;
- sustaining funds for the priority outreach activities of Technology Centres where costs cannot be recovered; and
- funds for hiring an independent consultant to conduct feasibility studies of proposed centres that intend to carry out priority outreach activities. Support for a feasibility study in no way implies a commitment to extend support to a Centre.

Since late 1986, the program has supported several centres across Canada. Of these, the Canadian Institute of Biotechnology (CIB) will be of particular interest to the biotechnology community.

Executive Director
Canadian Institute
of Biotechnology
Second Floor
388 Albert Street
OTTAWA, Ontario
K1R 5B2

Tel.: (613) 563-8849
Fax: (613) 563-8850

The CIB pursues opportunities to assist in technology transfer and the commercialization of biotechnology across Canada. The CIB focus is to support specific valuable projects to assist the range of biotechnology sectors in Canada. These projects include the promotion of biotechnology intelligence, education, national and international networking and other specific projects.

The key CIB objectives are:

- to recruit member organizations (non-profit) whose members are involved in the development or commercial applications of biotechnology across Canada with CIB providing a forum for co-ordination and collaboration among members;
- to provide both technology intelligence and networking opportunities to promote the diffusion and commercialization of biotechnology in the industrial sectors throughout Canada; and
- to pursue local, regional and national projects which will facilitate networking, education and intelligence gathering/analysis/dissemination for the Canadian biotechnology community.



Inv Investment Prospecting

Investment Project
Manager -
Biotechnology
Investment Canada
235 Queen Street
OTTAWA, Ontario
K1P 6A5

Tel.: (613) 992-5339
Fax: (613) 996-2515

The Investment Prospecting group's mandate is to attract investment to Canada in strategic technologies such as biotechnology. It also introduces foreign firms to the benefits and opportunities available to them in Canada. In so doing, it assists small and medium-sized Canadian biotechnology companies to find the capital, technology, joint ventures or strategic alliances they are seeking.

The Investment Prospecting group works with Canadian companies to profile their activities and their investment requirements and then, working with private sector expertise and the government's posts abroad, the group brings these specific opportunities to the attention of potential investors.

Canadian companies and institutes looking for strategic alliances should contact the Project Manager responsible for biotechnology at Investment Canada.



Lab LMPP Labour-Management Partnerships Program

Labour-Management
Partnerships Program
Labour Canada
OTTAWA, Ontario
K1A 0J2

Tel.: (819) 997-5470
Toll-free:
1-800-563-5677
Fax: (819) 953-5588

The Labour-Management Partnerships Program is designed to encourage greater labour-management co-operation and to promote productive, innovative and fair workplaces.

The program provides financial assistance that promotes the adoption and diffusion of workplace innovations and co-operative labour-management practices throughout the economy.

The program also provides financial assistance for temporary work assignments of senior officials, for example, between trade unions and the federal government or between unions and provincial or national business associations. The program also encourages the assignments of labour, government and business association employees to joint labour-management bodies.

The program funds up to half the costs of a project or assignment, over a maximum period of two years. Funding for projects cannot exceed \$100,000. In addition to cash contributions, applicants' cost-sharing can include in-kind services (salary and overhead costs directly related to the project). The total annual budget is just under \$1.5 million.

Persons wishing to receive funding, for either a joint labour-management project or an assignment, may apply.



**MRC
CRP
Collaborative Research Program**

Medical Research
Council of Canada
20th Floor
Jeanne Mance
Building
de l'Eglantine Street
Tunney's Pasture
OTTAWA, Ontario
K1A 0W9

Tel.: (613) 954-1972
Fax: (613) 954-1800

MRC provides support through research grants 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.

MRC also offers 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**

Medical Research
Council of Canada
20th Floor
Jeanne Mance
Building
de l'Eglantine Street
Tunney's Pasture
OTTAWA Ontario
K1A 0W9

Tel.: (613) 954-1972
Fax: (613) 954-1800

• **Researchers**

MRC provides up to three years of support for the salary of a researcher having an advanced degree in the health sciences and who undertakes research training in an industrial milieu.

• **Industry-University Visiting Program**

MRC provides 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 universities.



**NRC
BCP
NRC Biotechnology
Contribution Program**

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

Tel.: (514) 496-6104
Fax: (514) 496-6232

Institute for Biological
Sciences
Building M-54
Montreal Road
OTTAWA, Ontario
K1A 0R6

Tel.: (613) 993-6005
Fax: (613) 952-5136

Institute for Marine
Biosciences
1411 Oxford Street
HALIFAX, Nova Scotia
B3H 3Z1

Tel.: (902) 426-1186
Fax: (902) 426-9413

Plant Biotechnology
Institute
110 Gymnasium Road
SASKATOON
Saskatchewan
S7N 0W9

Tel.: (306) 975-5570
Fax: (306) 975-4839

The National Research Council of Canada's Biotechnology Contribution Program invites science-based and high technology enterprises to submit proposals for collaborative research with researchers from its four biotechnology institutes described on pages 58 to 60 of this guide. These include the Biotechnology Research Institute (BRI) in Montreal, the Institute for Biological Sciences (IBS), in Ottawa, the Institute for Marine Biosciences (IMB) in Halifax, and the Plant Biotechnology Institute (PBI) in Saskatoon.

The NRC Biotechnology Contribution Program provides financial support for high-quality research proposals that could lead to significant commercial opportunities and public benefit. Firms conducting research and development as well as those involved with product development may find an opportunity under the program to explore the most advanced high-risk concepts, which can lead to the next generation of products and processes and which can strengthen economic competitiveness.



**NRC
CISTI
Canadian Institute for Scientific and
Technical Information**

National Research
Council Canada
CISTI
Building M-55
Montreal Road
OTTAWA, Ontario
K1A 0S2

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.

Tel.: (613) 993-1600
Fax: (613) 952-9112

Tel.: (613) 993-1210
Fax: (613) 952-8244

- CAN/OLE Canadian On-line Enquiry permits subscribers to use their own computer terminals anywhere in Canada to access over 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.

Tel.: (613) 993-1210
Fax: (613) 952-8244

- CAN/SDI Canadian Selective Dissemination of Information is a computerized current awareness service that matches a client's interest profile with tapes listing the most recent publications in his/her field, and provides regular printouts of relevant citations.

Tel.: (613) 993-4165
Fax: (613) 952-8246

- CAN/SND Scientific Numeric Databases are accessible online, through tape lease or customized search, and allow scientists and engineers to search, retrieve and manipulate critically evaluated numeric data.

Tel.: (613) 993-1604
Fax: (613) 952-8246

- Health Sciences Resource Centre co-ordinates the Canadian MEDLARS network of the U.S. National Library of Medicine and provides reference services.

Tel.: (613) 993-2013
Fax: (613) 952-8246

- Reference Services such as literature searches, answers to specific questions, and verification of information are provided by information specialists who use CISTI's extensive collection, the largest in Canada, and who have access to several hundred data bases.

Tel.: (613) 993-3854
Fax: (613) 952-9112

- Many publications are available and a full list may be obtained on request.



**NRC
CPSD
Centre for Protein Structure and
Design**

CPSD
Biotechnology
Research Institute
National Research
Council Canada
6100 Royalmount
Avenue
MONTREAL, Quebec
H4P 2R2

Tel.: (514) 496-6256
Fax: (514) 496-6232

CPSD
Institute for Biological
Sciences
Montreal Road
OTTAWA, Ontario
K1A 0R6

Tel.: (613) 990-0829
Fax: (613) 952-0583

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.

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 Institute of Biological Sciences (IBS) in Ottawa and the Plant Biotechnology Institute (PBI) in Saskatoon and the Institute for Marine Biosciences in Halifax.

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, including X-ray crystallography, two-dimensional nuclear magnetic resonance, protein spectroscopy and biomolecular modelling.



**NRC
IRAP
Industrial Research Assistance Program**

IRAP - Field
National Research
Council Canada
Building M-55
Montreal Road
OTTAWA, Ontario
K1A 0R6

Tel.: (613) 993-1790
Fax: (613) 952-1079
or NRC Regional
Directors listed in
Annex D

The Technology Acquisition and Information Exchange program under IRAP provides a limit of \$15,000 on financial assistance. Focus of the program will be on improving the "technical competence" of small and medium-sized enterprises (SMEs). It has also been designed to address Canada's shortage of highly skilled personnel through training and student assistance projects. Short-term technical problem solving is supported primarily within the context of a strategy or plan for longer-term technological development worked out between the SME and an NRC Industrial Technology Advisor (ITA).

Grants are awarded as either Enterprise Projects, involving individual firms and proprietary benefits, or Industry Projects which seek to benefit an industry or sector and to strengthen industry-wide needs.



**NRC
IRAP - RDA
Industrial Research Assistance
Program - Research, Development
and Adaptation**

National Research
Council Canada
IRAP-RDA
Building M-55
Montreal Road
OTTAWA, Ontario
K1A 0R6

Tel.: (613) 993-1790
Fax: (613) 952-1079
or NRC Regional
Directors listed in
Annex D

IRAP provides assistance up to \$350,000 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 small and large companies and would in principle cover up to 50 percent of project costs, including salaries and contracted-out work.

A program for the transfer of existing biotechnology in government, university, institute or international laboratories to Canadian companies, or codevelopments and subsequent transfer of technology provides funds to Canadian companies that are willing to undertake further work on research results from NRC, all government departments 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.



**NSERC
CRD
Co-operative Research and Development**

University-Industry
Programs
Natural Sciences and
Engineering Research
Council of Canada
200 Kent Street
OTTAWA, Ontario
K1A 1H5

• **Research Grants**

NSERC assists industry in providing research 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 must guarantee each other's access to it.

Grants Officer
Tel.: (613) 996-1898
Fax: (613) 992-5337



**NSERC
IRC
Industrial Research Chairs**

University-Industry
Programs
Natural Sciences and
Engineering Research
Council of Canada
200 Kent Street
OTTAWA, Ontario
K1A 1H5

Grants Officer
Tel.: (613) 996-1898
Fax: (613) 992-5337

• **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 operation costs.



**NSERC
NCE
Networks of Centres of Excellence**

Natural Sciences and
Engineering Research
Council of Canada
200 Kent Street
OTTAWA, Ontario
K1A 1H5

Tel.: (613) 996-9403
Fax: (613) 992-7356

In May 1988, the federal government announced its \$240 million Networks of Centres of Excellence (NCE) program, which is a key element in the Canadian strategy for science and technology. This program is designed to stimulate excellent research of importance to Canada; develop and retain world-class researchers; develop national networks with the participation of universities, industries and government; and accelerate the diffusion of knowledge to industry. The Networks of Centres of Excellence bring together over 500 of Canada's foremost researchers from all sectors, with the overall aim of increasing research excellence and improving Canadian industrial competitiveness. Six of the fifteen selected networks are focusing research in areas related to biotechnology. For further information on the specific research activities of the individual networks, contact the Networks at the addresses listed below.

Tel.: (604) 822-4040
Fax: (604) 822-6938

Canadian Bacterial Diseases Network (CBDN)
The University of British Columbia
Room 351, 2125 East Hall
VANCOUVER, British Columbia
V6R 1Z4

Tel.: (604) 822-7189
Fax: (604) 822-7945

Canadian Genetic Diseases Network (CGDN)
The University of British Columbia
Department of Medical Genetics
Room 349, 2125 East Hall
VANCOUVER, British Columbia
V6R 1Z4

- Tel.: (613) 545-6557 **Insect Biotech Canada (IBC)**
Fax: (613) 545-6806 c/o Department of Biology
Room 136, Earl Hall
Queen's University
KINGSTON, Ontario
K7L 3N6
- Tel.: (514) 937-6011 **Neural Regeneration and Recovery**
ext. 2514 Administrative Office
Fax: (514) 934-8216 1650 Cedar Avenue
MONTREAL, Quebec
H3G 1A4
- Tel.: (604) 822-6821 **Protein Engineering Network (PENCE)**
Fax: (604) 822-2005 c/o Biotechnology Laboratory
The University of British Columbia
Room 354, 2125 East Hall
VANCOUVER, British Columbia
V6R 1Z4
- Tel.: (514) 845-5750 **Respiratory Health Network**
Fax: (514) 845-6740 Montreal Chest Hospital Centre
3650 St. Urbain Street
MONTREAL, Quebec
H2X 2P4

The Medical Research Council of Canada and the Social Sciences and Humanities Research Council of Canada also participate in the administration of the NCE program.



NSERC RT Research Training

University-Industry
Programs
Natural Sciences and
Engineering Research
Council of Canada
200 Kent Street
OTTAWA, Ontario
K1A 1H5

Grants Officer
Tel.: (613) 996-6424
Fax: (613) 992-5337

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

NSERC will contribute an industrial undergraduate students research award for up to four months to cover a portion of the salary of an undergraduate student working in an industrial laboratory.

NSERC also offers special postgraduate scholarships for employed scientists and Engineers to assist persons currently employed but intending to return to university for graduate studies.



NSERC SGP Strategic Grants Program in Biotechnology

Natural Sciences and
Engineering Research
Council of Canada
200 Kent Street
OTTAWA, Ontario
K1A 1H5

Grants Officer
Tel.: (613) 996-2717
Fax: (613) 992-5337

The objective of the SGP is to promote and accelerate targeted research in selected fields of national importance, to facilitate co-operation and exchange of knowledge between researchers and disciplines, to promote the recruitment and training of highly qualified personnel, and to encourage the transfer of knowledge to the user sector.

Funding is provided for high-quality, specified-duration research projects. Support for equipment essential to the conduct of strategic research projects and for conferences involving the user sector is also available.

The following strategic domains for the application of biotechnology have been selected:

- resource-based industries
- health care industries
- waste management industries
- assessment of environmental impacts of the application of biotechnologies in the above industries

Although eligible applicants must hold an academic appointment at a Canadian university, multidisciplinary research and co-operation with industry and/or government are encouraged.



NSERC TD Technology Diffusion

University-Industry
Programs
Natural Sciences and
Engineering Research
Council of Canada
200 Kent Street
OTTAWA, Ontario
K1A 1H5

Grants Officer
Tel.: (613) 996-1898
Fax: (613) 992-5337

- **Personnel Exchanges**
NSERC contributes 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 contributes 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 contributes towards the launch of university service programs directed at industry, including establishing liaison offices, circulating R&D bulletins and offering consulting services.



RCT SR & ED The Scientific Research and Experimental Development Tax Incentive Program

Senior Scientist
Revenue Canada
Taxation
875 Heron Road
OTTAWA, Ontario
K1A 0L8

Tel.: (613) 957-3618
or Taxation District
Offices listed in
Annex G

Revenue Canada offers widely available and easy to use Research and Development Tax Credits, which provide partial reimbursement for eligible R&D expenditures.

The aim of the SR & ED program is to provide support in the form of tax credits to Canadian businesses that conduct scientific research and experimental development in Canada. The financial support is intended to encourage businesses to develop new or improved technologically advanced products or processes.

Companies that benefit from this program can essentially be separated into two groups:

- small Canadian-controlled private corporations
- all other Canadian companies

Small, start-up or emerging Canadian-controlled private corporations with less than \$200,000 taxable income in the previous year may receive a refundable investment tax credit (ITC).

In order to receive the credit, companies must incur the following types of SR & ED expenses:

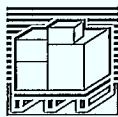
- wages, materials, etc. (current expenses)
- equipment (capital expenses)

The credit is calculated at a rate of 35 percent of these expenses. The program refunds to the company up to 100 percent of the ITC attributed to current expenditures and 40 percent of the ITC attributed to capital expenditures, to a maximum of \$700,000.

All other Canadian companies may receive an ITC of either 20 percent or 30 percent of eligible SR & ED expenditures depending on where in Canada the SR & ED is carried out.

Eligible SR & ED activities include those related to experimental development, applied research as well as basic research that entails technological uncertainty and advancement, and are carried out systematically by appropriately experienced people.

The *Income Tax Act* requires that anyone claiming an ITC for SR & ED or claiming a deduction for SR & ED must file Form T661, "Claim for Scientific Research and Experimental Development Expenditures," with the annual Corporation Income Tax Return. Special worksheets and assistance are available from Revenue Canada District Offices to help claimants provide the required technical information.



SSC CP Contracting-out Program

Science and
Professional Services
Directorate
Supply and Services
Canada
Place du Portage
Phase III 12C1
11 Laurier Street
HULL, Quebec
K1A 0S5

Director
Science Programs
Branch

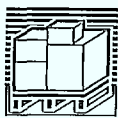
Tel.: (819) 956-1784
Fax: (819) 997-7352

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*, which is a monthly publication containing a science procurement update (science topics of current interest) on projects for which proposals are expected to be invited, a statistical summary, and contracts awarded during the previous month.
- National Supplier Information System (NASIS), which constitutes the complete sourcing database used by contracting personnel within SSC. NASIS 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.



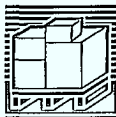
SSC EIP Environmental Innovation Program

Science and
Professional Services
Directorate
Supply and Services
Canada
Place du Portage
Phase III 12C1
11 Laurier Street
HULL, Quebec
K1A 0S5

Director
Science Programs
Branch
Tel.: (819) 956-1784
Fax: (819) 997-7352

EIP is administered by DSS on behalf of Environment Canada and is part of Canada's Green Plan. The EIP was developed independently from the Brokerage Service (see UP listing under SSC), yet has many common elements. The difference is that this program will consider only proposals specifically aimed at providing science and technology solutions for environmental problems. Another difference is that this program has a dedicated fund of \$20 million over five years, which can be used to financially help support proposals. The similarity between the programs is that DSS acts as a broker to distribute the proposals to any potentially interested party to find a sponsor for the project, and to find other financial and technical participants.

Proposals received under the Brokerage Service are distributed widely to potentially interested reviewers, and are considered under the EIP Program if the proposal subject matter is either directly or indirectly environmental in nature. Proposals received under EIP are distributed in a similar fashion. Other types of proposals can be accepted if a sponsor can be located, if the proposal is sufficiently unique to allow the waiver of the normal competitive procedure and if sufficient funding can be pooled.



SSC UP Unsolicited Proposals Brokerage Service

Science and
Professional Services
Directorate
Supply and Services
Canada
Place du Portage
Phase III 12C1
11 Laurier Street
HULL, Quebec
K1A 0S5

Director
Science Programs
Branch
Tel: (819) 956-1767
Fax: (819) 997-9776

The Brokerage Service is a successor to the Unsolicited Proposals Program, which was cancelled in 1989. The new service is very similar to the old UP Program except that Supply and Services Canada will not have a bridge fund to help the sponsoring department finance the project. SSC will, however, be contacting other potential participants, such as the regional development agencies, ISTC's industrial support programs, other federal programs such as the Environmental Innovation Program, and sources external to the federal government, including municipal and provincial governments. The idea will be to pool resources from a variety of sponsors and for SSC to act as a banker to the extent necessary. Of course, access to any source of funds will require proposals either to contribute to the objective of the funder or to meet the acceptance criteria for financial consideration. If funding is made available from sources that do not normally deal with procurement contracts, then certain special terms and conditions related to the particular program supplying the funds may apply.



WD WDP Western Diversification Program

Western Economic
Diversification
Canada
Suite 1500
Canada Place
9700 Jasper Avenue
EDMONTON, Alberta
T5J 4H7

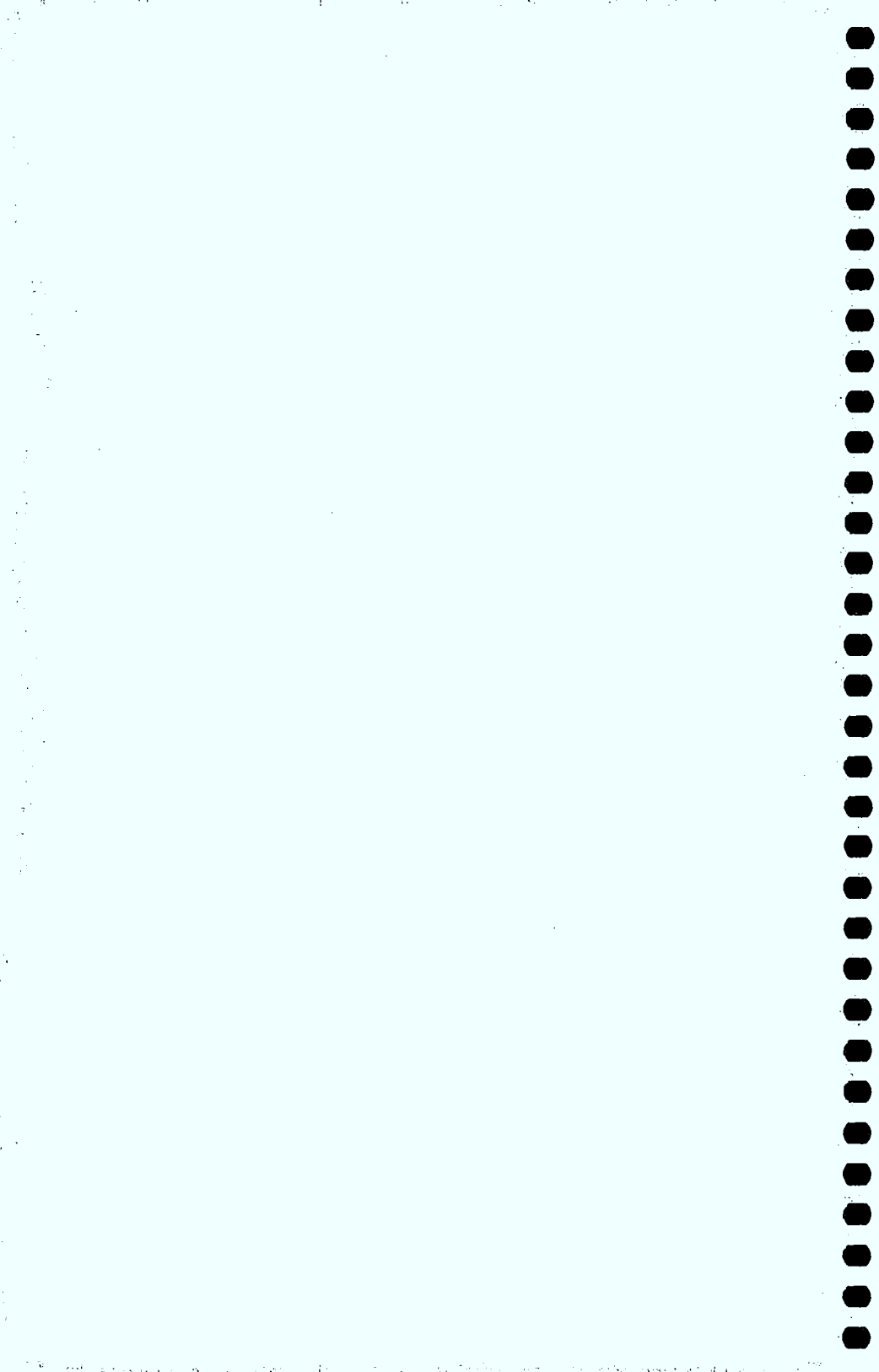
Tel: (403) 495-4164
Fax: (403) 495-4557
or WD Offices
listed in Annex F

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 international competitiveness 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. WD does not assist projects which have an adverse impact on other Canadian firms. Contributions are repayable.








Assisted projects could involve the following activities:

- new product development/commercialization
- plant establishment
- new market development/expansion
- industry-wide initiatives



Federal Research Centres

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Agr

Agriculture Canada

Programs, Priorities and Strategies Directorate
Agriculture Canada
Sir John Carling Building
930 Carling Avenue
OTTAWA, Ontario
K1A 0C5

Collaborative Mechanisms

Director
Program Co-ordination
Tel.: (613) 995-7084
Fax: (613) 943-0440

- Contracted-out R&D program
- Research grants
- Assistance programs

Research Activities

Research Branch
Headquarters
Co-ordination Directorate
Biotechnology Coordinator

Tel.: (613) 995-7084
Fax: (613) 943-0440

- Resource and support research
 - Land
 - Biological resources
 - Water and climate
 - Biotechnology
 - Energy and engineering
 - Protection
- Animal productivity research
 - Beef
 - Poultry
 - Dairy
 - Swine
 - Other animals
- Crop productivity research
 - Cereals
 - Vegetables
 - Oilseeds
 - Tree fruit and berries
 - Forage
 - Ornamentals
 - Field crops
- Food Research
 - Processing equipment and products
 - Safety and nutrition
 - Storage

Research Centres

Tel.: (613) 998-9320
Fax: (613) 952-8072

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

Tel.: (613) 993-6002
Fax: (613) 995-8175

CFAR
Centre for Food and Animal Research
Building 55
OTTAWA, Ontario
K1A 0C6

Tel.: (613) 995-5011
Fax: (613) 995-7283

CLBRR
Centre for Land and Biological Resources Research
K. W. Neatby Building
960 Carling Avenue
OTTAWA, Ontario
K1A 0C6

Tel.: (519) 645-4452
Fax: (519) 645-4085

LRC
London Research Centre
1400 Western Road
LONDON, Ontario
N6A 2V4

Tel.: (613) 995-3700
Fax: (613) 992-7909

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

Tel.: (514) 773-1105
Fax: (514) 773-8461

SHFRC
St-Hyacinthe Food and Development Research Centre
3600 Casavant Blvd. West
ST-HYACINTHE, Quebec
J2S 8E3

Tel.: (306) 975-7014
Fax: (306) 242-1839

SRS
Saskatoon Research Station
107 Science Place
SASKATOON, Saskatchewan
S7N 0X2

Tel.: (604) 224-4355
Fax: (604) 666-4994

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



EMR **Energy, Mines and Resources Canada**

CANMET
Canadian Centre for Mineral and Energy
Technology
Energy, Mines and Resources Canada
555 Booth Street
OTTAWA, Ontario
K1A 0G1

Collaborative Mechanisms

Industry Liaison
Manager
Office of Business
Development
Tel.: (613) 992-7782
Fax: (613) 996-9673

Research Centre

Tel.: (613) 992-1885
Fax: (613) 996-9673

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

Research Activities

Tel.: (613) 996-2929
Fax: (613) 996-9041

Resource Utilization Laboratory

- Value-added industrial minerals
- Processes for recycling metallurgical scrap and wastes
- Concrete technology
- Process plant production improvement

Tel.: (613) 992-4105
Fax: (613) 996-9673

Core Technologies and Services Laboratory

- Analytical standards/services
- Process mineralogy
- Process engineering
- Modelling and simulation
- Process control sensors

Tel.: (613) 996-5619
Fax: (613) 992-9389

Environmental Laboratory

- Sludge minimization
- AMD mitigation
- Effluents
- Biotechnology

Tel.: (613) 992-8736
Fax: (613) 996-9673

Mine Environment Neutral Drainage (MEND)



EC Environment Canada

Conservation and Protection
Technology Development and Technical Services
Branch
Environment Canada
Block 100, Asticou Centre
241 Cité des Jeunes Blvd
HULL, Quebec
K1A 0H3

Collaborative Mechanisms

Special Adviser
Technology
Development Program
Tel.: (613) 953-9365
Fax: (613) 953-9209

- Contracted-out R&D program
- Contracted-in R&D program
- BIOQUAL

Research Centres

Head
Biotechnology Section
Tel.: (819) 953-6684
Fax: (819) 953-7155

BS
Biotechnology Section
New Substances Division
Commercial Chemicals Branch
14th Floor, Place Vincent Massey
351 St. Joseph Blvd.
HULL, Quebec
K1A 0H5

Research Activities

- Regulations stipulating the pre-manufacture and pre-import notification requirements for biotechnology products under CEPA
- Monitoring techniques for genetically engineered micro-organisms
- Environmental fate and effects studies of release to the environment of genetically engineered micro-organisms
- Development of a *Domestic Substances List for Biotechnology Products* under the *Canadian Environmental Protection Act*

Director
Tel.: (514) 928-4200
Fax: (514) 928-4264

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

Research Activities

- Bioassays for ecotoxicity

Ecotoxicology
Tel.: (514) 928-4246
Fax: (514) 928-4264

Director
Tel.: (416) 336-4601
Fax: (416) 336-4989

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

Research Activities

- Lakes and rivers research
- Toxicant screening tests and techniques

Director General
Tel.: (613) 997-1301
Fax: (613) 953-6283

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 and monitoring

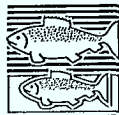
Director
Tel.: (416) 336-4740
Fax: (416) 336-8912

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

Research Activities

- Biological wastewater treatment processes
- Degradation of chlorinated organics in soil
- Application of high-rate anaerobic technology

Biological Processes
Tel.: (416) 336-4546
Fax: (416) 336-4765



F&O

Fisheries and Oceans

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

Collaborative Mechanisms

Director
Tel.: (613) 990-0275
Fax: (613) 954-0807

- Contracted-out R&D program
- Research grants

Research Centre

Head
Fish Culture
Research
Tel.: (604) 666-7928
Fax: (604) 666-3497

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



ForCan Forestry Canada

Forestry Canada
21st Floor, Place Vincent Massey
351 St. Joseph Boulevard
HULL, Quebec
K1A 1G5

Tel.: (819) 997-1107
Fax: (613) 990-3437

A substantial amount of research is conducted in the laboratories of Forestry Canada in the field of biotechnology, e.g., tree improvement, biological control of insect pests. Much of this work involves collaboration with research groups and agencies other than Forestry Canada. Support is available to these groups for work in biotechnology as a component of the ENFOR program.

Research Establishments

Tel.: (709) 772-4683
Fax: (709) 772-2576

Director General
Newfoundland and Labrador Region Forestry Centre
Forestry Canada
Pleasantville Street
P. O. Box 304
ST. JOHN'S, Newfoundland
A1C 5X8

Tel.: (506) 452-3500
Fax: (506) 452-3525

Director General
Maritimes Region Forestry Centre
Forestry Canada
College Hill
Hugh John Flemming Forestry Centre
P.O. Box 4000
FREDERICTON, New Brunswick
E3B 5P7

Tel.: (418) 648 3957
Fax: (418) 648-5849

Director General
Quebec Region Forestry Centre
Forestry Canada
1055 rue du P.E.P.S.
P. O. Box 3800
STE-FOY, Quebec
G1V 4C7

Tel.: (705) 949-9461
Fax: (705) 759-5700

Director General
Ontario Region Forestry Centre
Forestry Canada
1219 Queen Street East
P.O. Box 490
SAULT STE. MARIE, Ontario
P6A 5M7

Tel.: (403) 435-7210
Fax: (403) 435-7359

Director General
Northwest Region Forestry Centre
Forestry Canada
5320 - 122nd Street
EDMONTON, Alberta
T6H 3S5

Tel.: (604) 388-0600
Fax: (604) 388-0775

Director General
Pacific and Yukon Region Forestry Centre
Forestry Canada
506 West Burnside Road
VICTORIA, British Columbia
V8Z 1M5

Tel.: (705) 949-9461
Fax: (705) 759-5700

Director General
Forest Pest Management Institute
Forestry Canada
1219 Queen Street East
P.O. Box 490
SAULT STE. MARIE, Ontario
P6A 5M7

Tel.: (613) 589-2880
Fax: (613) 589-2275

Director General
Petawawa National Forestry Institute
Forestry Canada
CHALK RIVER, Ontario
K0J 1J0



HWC **Health and Welfare Canada**

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

Research Centres

DD Drugs Directorate

Director
Tel.: (613) 957-1058
Fax: (613) 952-7422

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

Research Activities

- Wide spectrum of regulatory 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

Director
Tel.: (613) 957-8065
Fax: (613) 957-6302

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

Director
Tel.: (613) 957-3823
Fax: (613) 957-3861

Bureau of Veterinary Drugs
Main Statistics Canada Building
Tunney's Pasture
OTTAWA, Ontario
K1A 0L2

Research Activities

- Evaluates and monitors the safety and efficacy of biotechnology veterinary products
- Develops guidelines and regulations

EHD

Environmental Health Directorate

Director
Tel.: (613) 957-3133
Fax: (613) 952-9798

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

Research Activities

- Safety evaluations of biotechnological products for environmental and industrial application, pesticides and consumer products
- Development of regulations and test methods in the above areas

Director
Tel.: (613) 954-6647
Fax: (613) 952-9071

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 for the above products

FCA

Federal Centre for AIDS

Director

Tel.: (613) 957-1772

Fax: (613) 954-5414

Laboratories and Research Services Bureau

Virus Building

Tunney's Pasture

OTTAWA, Ontario

K1A 0L2

Research Activities

- Detection
- Treatment
- Vaccine

FD

Food Directorate

Director

Tel.: (613) 957-0880

Fax: (613) 954-4674

Bureau of Microbial Hazards

Frederick G. Banting Building

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 assessments to other federal, provincial and municipal agencies, health professionals, the food industry and the general population

LCDC

Laboratory Centre for Disease Control
LCDC Building
Tunney's Pasture
OTTAWA, Ontario
K1A 0L2

Chief

Tel.: (613) 957-1771
Fax: (613) 941-0596

Office of Biosafety

Chief

Tel.: (613) 954-0395
Fax: (613) 952-7009

Division of Biometrics

Director

Tel.: (613) 957-1329
Fax: (613) 941-2408

Bureau of Microbiology

Director

Tel.: (613) 957-4243
Fax: (613) 998-6413

Bureau of Communicable Disease Epidemiology

Director

Tel.: (613) 957-0329
Fax: (613) 941-2057

Bureau of Chronic Disease Epidemiology

Research Activities

- Communicable disease epidemiology
- Chronic disease epidemiology
- Microbiology

Consultative Activities

- Provides a national advisory service on safe operating procedures in laboratories for all sectors
 - Consultation to public health agencies on laboratory practice, infections and vaccine programs
-



NRC
National Research Council Canada
Biotechnology Program

Biotechnology Research Institute
National Research Council Canada
6100 Royalmount Avenue
MONTREAL, Quebec
H4P 2R2

Biotechnology
Program Office
Tel.: (514) 496-6100
Fax: (514) 496-5324

The National Research Council Canada's Biotechnology Program invites science-based and high technology enterprises to submit proposals for collaborative research with researchers from its four biotechnology institutes described here.

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.

Research Centres

Director
Tel.: (902) 426-8278
Fax: (902) 426-9413

IMB
Institute for Marine Biosciences
1411 Oxford Street
HALIFAX, Nova Scotia
B3H 3Z1

Business Services
Tel.: (902) 426-1186
Fax: (902) 426-9413

Collaborative Mechanisms

- Collaborative research
- Contracted-out R&D program
- Contribution program

Tel.: (902) 426-4927
Fax: (902) 426-9413

Tel.: (902) 426-8264
Fax: (902) 426-9413

Research Activities

- Marine biosciences
 - Aquaculture and culture development
 - Cell biology
 - Molecular biology
- Biological chemistry
 - Marine microbiology
 - Bioorganic chemistry
 - Spectroscopy

Tel.: (902) 426-6503
Fax: (902) 426-9413

Director
Tel.: (514) 496-6101
Fax: (514) 496-6388

Director
Industrial Affairs and
Administration
Tel.: (514) 496-6104
Fax: (514) 496-5007

Director
Tel.: (514) 496-6194
Fax: (514) 496-1575

Director
Tel.: (514) 496-6256
Fax: (514) 496-5143

Tel.: (613) 993-6005
Fax: (613) 952-5136

- Analytical chemistry
 - Marine shellfish toxins
 - Aromatic pollutants
 - Biological mass spectroscopy
 - Ion spray mass spectroscopy

BRI

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

Collaborative Mechanisms

- Joint research project agreement
- Contracting-in
- Contribution (through the NRC Biotechnology Program Office)

Research Activities

- Bio-engineering
 - Bio-process technology
 - Biosensor technology
 - Cell culture technology
 - Environmental engineering
 - Pilot plant
- Molecular biology
 - Biomolecular interactions
 - Cell surface recognition
 - Environmental genetics
 - Enzyme engineering
 - Mammalian cell genetics
 - Macromolecular structure
 - Protein chemistry
 - Virology
 - Yeast genetics

IBS

Institute for Biological Sciences
Building M-54
Montreal Road
OTTAWA, Ontario
K1A 0R6

Industrial Liaison
Officer
Tel.: (613) 993-6005
Fax: (613) 952-5136

Tel.: (613) 993-9090
Fax: (613) 952-0583

Tel.: (613) 990-0829
Fax: (613) 952-0583

Tel.: (613) 990-0838
Fax: (613) 952-9092

Tel.: (306) 975-4191
Fax: (306) 975-4839

Head
Business and Outreach
Tel.: (306) 975-5278
Fax: (306) 975-4839

Tel.: (306) 975-5572
Fax: (306) 975-4839

Collaborative Mechanisms

- Collaborative research
- Contribution program
- Contracted-out R&D program

Research Activities

- Cell systems laboratory
 - Molecular cell biology
 - Cell signals
 - Metabolic regulation
- Protein structure and design
 - Protein characterization
 - Protein spectroscopy
 - Crystallography
 - Bioinformatics
- Structural immunobiology
 - Bacterial antigens
 - Antibodies
 - Genetics

PBI

Plant Biotechnology Institute
110 Gymnasium Road
SASKATOON, Saskatchewan
S7N 0W9

Collaborative Mechanisms

- Collaborative research
- Contribution program
- Contracted-out R&D program

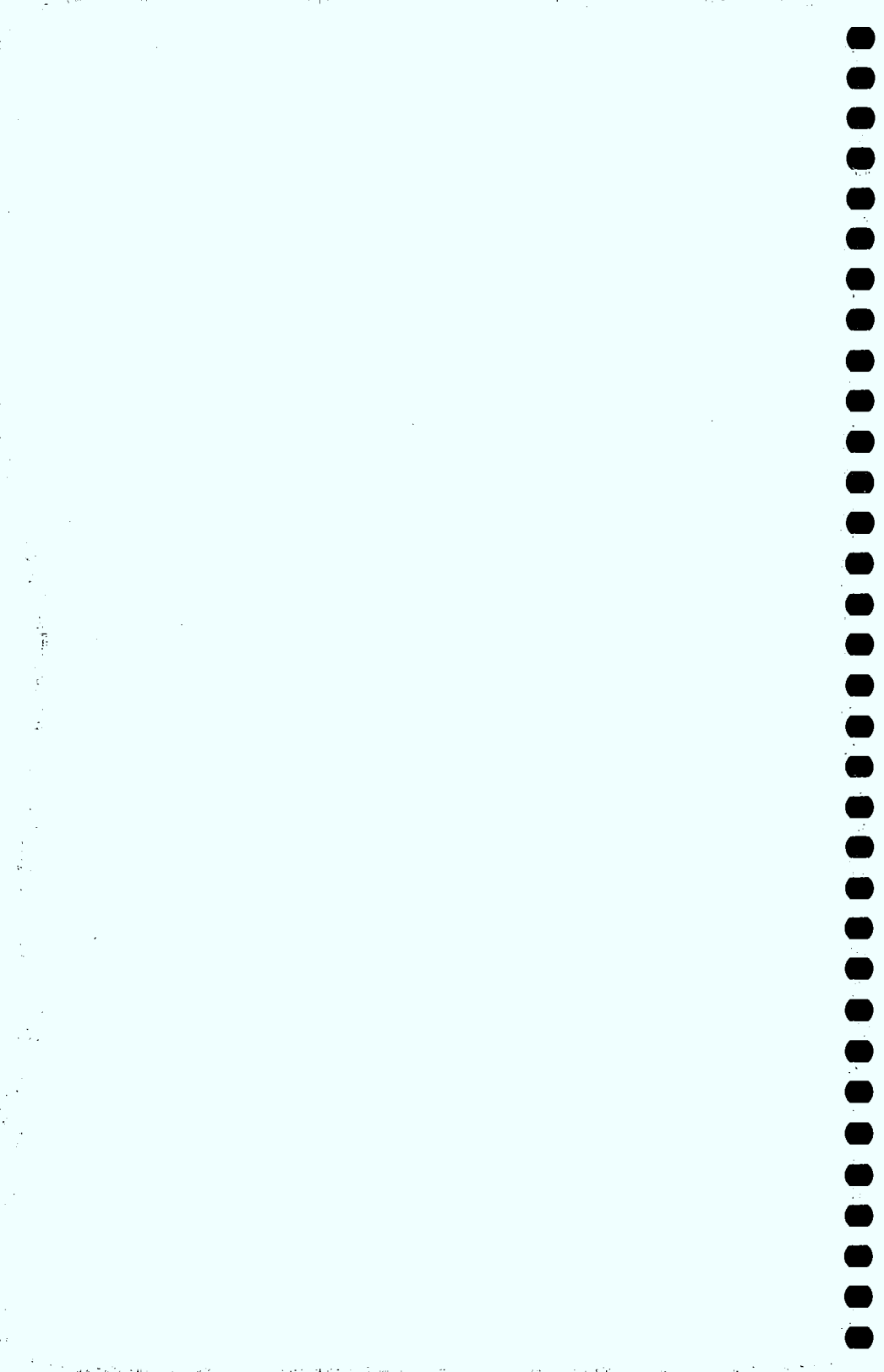
Research Activities

- Cereal biotechnology
- Conifer biotechnology
- Stress tolerance genes
- Regulation of gene expression
- Legume biotechnology
- Biological chemistry
- Seed oil modification
- Brassica biotechnology
- Transgenic plant centre

BIOTECHNOLOGY NETWORKS

The Biotechnology Networks have been established to facilitate communication and co-operation between performers and users of research. Each Network is administered by a federal science department. Membership is open to anyone interested in the development and application of biotechnology for commercial and social benefit. To ensure effective communication and collaboration, the operations of the individual Networks are directed by the participants through an elected steering committee. Each Network holds at least one meeting per year where topics relating to research, commercial applications, industrial issues and current policies are discussed. Several of the Networks also distribute newsletters to their registered members.

Name	Area	Department	Tel.	Fax
AQUATECH	Aquaculture	F&O	(613) 990-0275	(613) 954-0807
BIOCROP	Plant strain development	Agr	(613) 995-3700	(613) 992-7909
BIOFOR	Forestry and forest products	ForCan	(705) 949-9461	(705) 759-5700
BIOMINET	Mineral leaching and metal recovery	EMR	(613) 992-1885	(613) 996-9673
BIONET	Human and animal health care products	HWC	(613) 957-1058	(613) 952-7422
		Agr	(613) 998-9320 ext. 4953	(613) 952-2285
BIOQUAL	Waste treatment	EC	(819) 953-9365	(819) 953-9029
BIOREM	Rhizosphere enhancing microorganisms	Agr	(613) 995-3700	(613) 992-7909
BIOZOOTECH	Livestock and animal production technology	Agr	(613) 993-6002	(613) 943-2352



ANNEX A



ISTC National Biotechnology Team Regional Offices

Tel.: (709) 772-4910

Fax: (709) 772-5093

Newfoundland

Industry, Science and Technology Canada
Suite 504

Atlantic Place

215 Water Street

ST. JOHN'S, Newfoundland

A1B 3R9

Tel.: (902) 566-7441

Fax: (902) 566-7450

New Brunswick and Prince Edward Island

Industry, Science and Technology Canada
Suite 400, National Bank Tower

Confederation Court Mall

134 Kent Street

P.O. Box 1115

CHARLOTTETOWN, Prince Edward Island

C1A 7M8

Tel.: (902) 426-7543

Fax: (902) 426-2624

Nova Scotia

Industry, Science and Technology Canada
4th Floor, Central Guaranty Trust Tower

1801 Hollis Street

P.O. Box 940, Station M

HALIFAX, Nova Scotia

B3J 2V9

Tel.: (514) 283-8813

Fax: (514) 283-3302

Quebec

Industry, Science and Technology Canada
Suite 3800

Tour de la Bourse

800 Victoria Square

P.O. Box 247

MONTREAL, Quebec

H4Z 1E8

Tel.: (416) 973-5033
Fax: (416) 973-8714

Ontario

Industry, Science and Technology Canada
4th Floor
Dominion Public Building
1 Front Street West
TORONTO, Ontario
M5J 1A4

Tel.: (204) 983-6033
Fax: (204) 983-2187

Manitoba

Industry, Science and Technology Canada
9th Floor
330 Portage Avenue
P.O. Box 981
WINNIPEG, Manitoba
R3C 2V2

Tel.: (306) 975-5316
Fax: (306) 975-5334

Saskatchewan

Industry, Science and Technology Canada
Suite 401
119 - 4th Avenue South
SASKATOON, Saskatchewan
S7K 5S2

Tel.: (403) 292-4577
Fax: (403) 292-4578

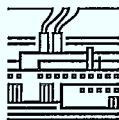
Alberta

Industry, Science and Technology Canada
Suite 1100
510 - 6th Street Southwest
CALGARY, Alberta
T2P 3S2

Tel.: (604) 666-1409
Fax: (604) 666-8330

British Columbia

Industry, Science and Technology Canada
Suite 900
Scotia Tower
650 West Georgia Street
P.O. Box 11610
VANCOUVER, British Columbia
V6B 5H8



ANNEX B

International Trade Centres

External Affairs and International Trade Canada and Industry, Science and Technology Canada have established International Trade Centres across Canada which provide a wide range of services to companies seeking export counselling.

Tel.: (709) 772-5511
Fax: (709) 772-2373

Newfoundland
International Trade Centre
Suite 504
Atlantic Place
215 Water Street
ST. JOHN'S, Newfoundland
A1B 3R9

Tel.: (902) 566-7400
Fax: (902) 566-7450

Prince Edward Island
International Trade Centre
Suite 400, National Bank Tower
Confederation Court Mall
134 Kent Street
P.O. Box 1115
CHARLOTTETOWN, Prince Edward Island
C1A 7M8

Tel.: (902) 426-7540
Fax: (902) 426-2624

Nova Scotia
International Trade Centre
1801 Hollis Street
P.O. Box 940, Station M
HALIFAX, Nova Scotia
B3J 2V9

Tel.: (506) 851-6452
Fax: (506) 851-6429

New Brunswick
International Trade Centre
Assumption Place
770 Main Street
P. O. Box 1210
MONCTON, New Brunswick
E1C 8P9

Tel.: (514) 283-8185
Fax: (514) 283-8794

Quebec
International Trade Centre
Suite 3800
Tour de la Bourse
800 Victoria Square
P.O. Box 247
MONTREAL, Quebec
H4Z 1E8

Tel.: (416) 973-5053
Fax: (416) 973-8161

Ontario
International Trade Centre
4th Floor
Dominion Public Building
1 Front Street West
TORONTO, Ontario
M5J 1A4

Tel.: (204) 983-8036
Fax: (204) 983-2187

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

Tel.: (306) 975-5315
Fax: (306) 975-5334

Saskatchewan
International Trade Centre
Suite 401
119 4th Avenue South
SASKATOON, Saskatchewan
S7K 5X2

Tel.: (306) 780-5020
Fax: (306) 780-6679

International Trade Centre
4th Floor
1955 Smith Street
REGINA, Saskatchewan
S7P 2N8

Tel.: (403) 495-2944
Fax: (403) 495-4507

Alberta
International Trade Centre
Room 540, Canada Place
9700 Jasper Avenue
EDMONTON, Alberta
T5J 4C3

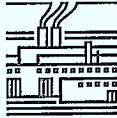
Tel.: (403) 292-6660
Fax: (403) 292-4578

International Trade Centre
Suite 1100
510 - 6th Street Southwest
CALGARY, Alberta
T2P 3S2

Tel.: (604) 666-0434
Fax: (604) 666-8330

British Columbia
International Trade Centre
Suite 900, Scotia Tower
650 West Georgia Street
P.O. Box 11610
VANCOUVER, British Columbia
V6B 5H8

ANNEX C



FBDB Regional Offices

Regional Director
Management
Services
Tel.: (902) 426-7860
Fax: (902) 426-9033

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

Regional Director
Management
Services
Tel.: (514) 283-3657
Fax: (514) 283-5626

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

Regional Director
Management
Services
Tel.: (416) 973-0054
Fax: (416) 973-3930

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

Regional Director
Management
Services
Tel.: (204) 983-7811
Fax: (204) 983-8522

Prairies and Northwest Territories
Federal Business Development Bank
Suite 1200
155 Carlton Street
WINNIPEG, Manitoba
R3C 3H8

Regional Director
Management
Services
Tel.: (604) 666-7800
Fax: (604) 666-5872

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

ANNEX D



NRC Regional Directors

Tel.: (613) 993-1790
Fax: (613) 952-1079

IRAP - National Elements
National Research Council Canada
Building M-55
Montreal Road
OTTAWA, Ontario
K1A 0R6

Tel.: (709) 772-5228
Fax: (709) 772-5067

Newfoundland and Labrador Region
National Research Council Canada
Viking Building
136 Crosbie Road
ST. JOHN'S, Newfoundland
A1B 3K3

Tel.: (902) 426-3138
Fax: (902) 426-1624

Maritime Region
Prince Edward Island, Nova Scotia, New Brunswick

National Research Council Canada
c/o Technical University of Nova Scotia
1360 Barrington Street, Building A
P.O. Box 1000
HALIFAX, Nova Scotia
B3J 2X4

Tel.: (514) 283-8831
Fax: (514) 283-1915

Quebec Region
National Research Council Canada
c/o CRIQ Building
8475 Christophe Colomb Avenue
MONTREAL, Quebec
H2M 2N9

Tel.: (416) 973-4484
Fax: (416) 973-4303

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

Tel.: (204) 945-6133
Fax: (204) 983-8835

Prairie Region
Manitoba, Saskatchewan

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

Tel.: (403) 495-6508
Fax: (403) 495-6510

Alberta Region
Alberta, Northwest Territories

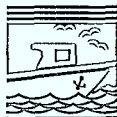
National Research Council Canada
c/o Alberta Research Council
250 Karl Clark Road
P.O. Box 8330, Station F
EDMONTON, Alberta
T6H 5X2

Tel.: (604) 666-7244
Fax: (604) 666-7035

British Columbia Region
British Columbia, Yukon

National Research Council Canada
c/o B.C. Research
3650 Westbrook Mall
VANCOUVER, British Columbia
V6S 2L2

ANNEX E



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

Tel.: (506) 851-2271
Toll-free:
1-800-561-7862
Fax: (506) 851-7403

Atlantic Canada Opportunities Agency
Blue Cross Centre
644 Main Street,
MONCTON, New Brunswick
E1C 9J8

Regional Offices

Tel.: (709) 772-2751
Toll-free:
1-800-563-5766
Fax: (709) 772-2712

Newfoundland

ACOA
Suite 801, Atlantic Place
215 Water Street
Box 1060, Station C
ST. JOHN'S, Newfoundland
A1C 5M5

Tel.: (902) 566-7492
Toll-free:
1-800-565-0228
Fax: (902) 566-7098

Prince Edward Island

ACOA
75 Fitzroy Street
CHARLOTTETOWN, Prince Edward Island
C1A 8R8

Tel.: (902) 564-3600
Toll-free:
1-800-565-9460
Fax: (902) 564-3825

Nova Scotia

ACOA
Enterprise Cape Breton Corporation
4th Floor
Commerce Tower
15 Dorchester Street
SYDNEY, Nova Scotia
B1P 6K7

Tel.: (506) 452-3184
Toll-free:
1-800-561-4030
Fax: (506) 452-3285

New Brunswick

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

ANNEX F



WD Offices

Head Office

Tel.: (403) 495-4164
Calgary toll-free:
(403) 292-5382
Fax: (403) 495-4557

Western Economic Diversification Canada
Suite 1500
Canada Place
9700 Jasper Avenue
EDMONTON, Alberta
T5J 4H7

Regional Offices

Tel.: (204) 983-4472
Fax: (204) 983-4694

Manitoba

Western Economic Diversification Canada
Suite 712
The Cargill Building
240 Graham Avenue
P.O. Box 777
WINNIPEG, Manitoba
R3C 2L4

Tel.: (306) 975-4373
Regina toll-free:
(306) 780-6725
Fax: (306) 975-5484

Saskatchewan

Western Economic Diversification Canada
Suite 601, S. J. Cohen Bldg
119 - 4th Avenue South
P.O. Box 2025
SASKATOON, Saskatchewan
S7K 3S7

Tel.: (604) 666-6256
BC toll-free:
1-800-663-2008
Fax: (604) 666-2353

British Columbia

Western Economic Diversification Canada
Suite 1200, Bentall Tower 4
1055 Dunsmuir Street
P.O. Box 49276
VANCOUVER, BC
V7X 1L3

ANNEX G



RCT

Taxation District Offices

Tel.: (902) 426-2790

Halifax

Revenue Canada
1256 Barrington Street
P.O. Box 638
HALIFAX, Nova Scotia
B3J 2T5

Tel.: (514) 496-1963

Montreal

Revenue Canada
305 René Lévesque Blvd. West
MONTREAL, Quebec
H2Z 1A6

Tel.: (613) 598-4071

Ottawa

Revenue Canada
360 Lisgar Street
OTTAWA, Ontario
K1A 0L9

Tel.: (416) 572-2119

Hamilton

Revenue Canada
150 Main Street West
HAMILTON, Ontario
L8N 3E1

Tel.: (416) 973-3725

Toronto

Revenue Canada
36 Adelaide Street East
TORONTO, Ontario
M5C 1J7

Tel.: (403) 292-4127

Calgary

Revenue Canada
220 - 4th Avenue Southeast
CALGARY, Alberta
T2G 0L1

Tel.: (604) 666-4579

Vancouver

Revenue Canada
1166 West Pender Street
VANCOUVER, British Columbia
V6E 3H8

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A complete list of Programs and Services is included in the INDEX TO FEDERAL PROGRAMS AND SERVICES BY ACTIVITY SUPPORTED

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	WTC	50	Supplier	CP	39
Financing					
	FBDB	22			
	SBLA	26			
	UP	41			

Innovations			Market Research		
Research	BCP	31	AAP	8	
	DIRECT	12		EDP	19
Various	IPD	10		ETDP	21
	PIE	11		FedNor	23
	AAP	8		IOI	25
	CABE	22		STP	27
	FedNor	23		WDP	41
	EDP	19	MEDLARS		
	UP	41		CISTI	32
Insurance	WDP	41	Mineral Leaching		
				MSL	48
for Canadian Exporters			Mining		
Loan	EDC	13		MSL	48
	AAP	8		Networks	61
Intellectual Property	FedNor	23	National Supplier Information Systems (NASIS)		
	IPD	10		CP	39
	PIE	11	Patents		
	PBR	8		IPD	10
Interest Buy-downs				PIE	11
International	AAP	8	Pilot Plant		
				BRI	59
Co-operation	BD	17		SHFRC	46
	CIDA	9		WTC	50
	TIP	16	Plant Breeders' Rights		
	IDRC	14		PBR	8
Trade Promotion			Project Funding		
Investment	PEMD	16		ACOA	8
				BD	17
Banking	FBDB	22		BCP	31
	IOI	25		CFTCP	19
Imports	CIDA	9		CIDA	9
	PEMD	16		CRD	34
Prospecting	ICD	9		DIRECT	12
				EDP	19
Japan	JSTF	15		ETCP	20
				ETDP	21
Journals/Scientific	CISTI	32		FedNor	23
				FIB	24
Licences	PIE	11		IDRC	14
				IERD	12
Loans				JSTF	15
	Business Improvement			MSDP	26
Export	SBLA	26		SR&ED	38
	EDC	13		STP	27
Guarantees for	ICD	9		TOP	28
	FBDB	22		UP	41
Insurance for	AAP	8		WDP	41
	FedNor	23	Protein Engineering		
Term	FBDB	22		BRI, IBS	59
	SBLA	26		CPSD	33
Marine Biosciences				NCE	35
	CFTCP	19		SHFRC	46
	IMB	58			
	Networks	61			
	WVL	51			

Prototype Demonstrations			Management Services			
	DIRECT	12		FBDB	22	
	ETCP	19		IC	29	
	ETDP	20	Sourcing			
	STP	27			BOSS	18
Publications				CCC	14	
	BD	17		CP	39	
	CISTI	32	Studies, Support for			
CP	39	AAP		8		
EDC	13	CIDA		9		
Regulations	IDRC	14		ENFOR	17	
				ETCP	20	
	BD	17		ETDP	21	
Drugs and Cosmetics				FedNor	23	
	DD	54		FIB	24	
Environmental	BS	49		IC	29	
	EHD	55		STP	27	
	NWRI	50	Systems Development			
Food	FD	56			MSDP	26
Research Chairs			Tax			
	IRC	35		SR&ED	38	
Safety			Technology Centres			
	Biologicals	DD	54		TOP	28
Biosafety Course			Trade			
	LCDC	57		International	CCC	14
Biotechnological Products				EDC	13	
	EHD	55		JSTF	15	
Handling of rDNA			Missions/Fairs	BD	17	
	LCDC	57			PEMD	16
Laboratory Procedures			Training			
	LCDC	57		Foreign Personnel		
Medical Devices				JSTF	15	
	EHD	55	Management	FBDB	22	
Seminars				Research	IDRC	14
	CASE	22		RT	37	
	CIDA	9	University-Industry			
	CRP	34		Affiliations	TD	38
	LCDC	55		Alliances	BD	17
	PIE	11	Collaborative Research			
	TD	38				
	TOP	28			BCP	31
Services					CRD	34
	Advisory	BD	17		CRP	30
	CP	39			ETCP	20
	TOP	28			ETDP	21
Consulting and Financial					FIB	24
	FBDB	22			JSTF	15
On-line	CISTI	32			NCE	35
Reference and Referral					STP	27
	CISTI	32	Exchanges		IF	30
Small Business					IRC	35
	Awards	CABE	22		RT	37
Laboratory Facilities			Vaccines (<i>see</i> Disease Control, Immunology)			
	BRI	59	Waste Management (<i>see</i> Environment)			
Loans	SBLA	26	Workshops			
					CRP	30
					TD	38
					TOP	28