BUILDING CANADA'S COMPETITIVENESS

Colleges and Institutes work with industry to:

- Develop new products and processes
- Research, adapt and commercialize new technologies
- Develop prototypes
- Simulate, test and analyze products and processes
- Conduct feasibility studies
- Develop marketing strategies
- Develop and incubate new business
- Train employees
- Provide industry access to equipment, technologies, and expert staff

Colleges and Institutes are the applied research and testing ground for Canada's small to medium size enterprises. These enterprises form the backbone of Canada's prosperity. Their ability to develop or adapt new products, processes, and business models is key to the economic prosperity and international competitiveness of our country.

Colleges and Institutes play a critical role in building an innovative, productive economy!

CONTACTS

For general information and links to Canada's Colleges and Institutes, contact:

The Association of Canadian Community Colleges
200-1223 Michael Street North
Ottawa, Ontario K1J 7T2
Telephone: 613-746-2222
Fax: 613-746-6721
www.accc.ca

To learn about current applied research services and activities, check the web site of the specific College or Institute.

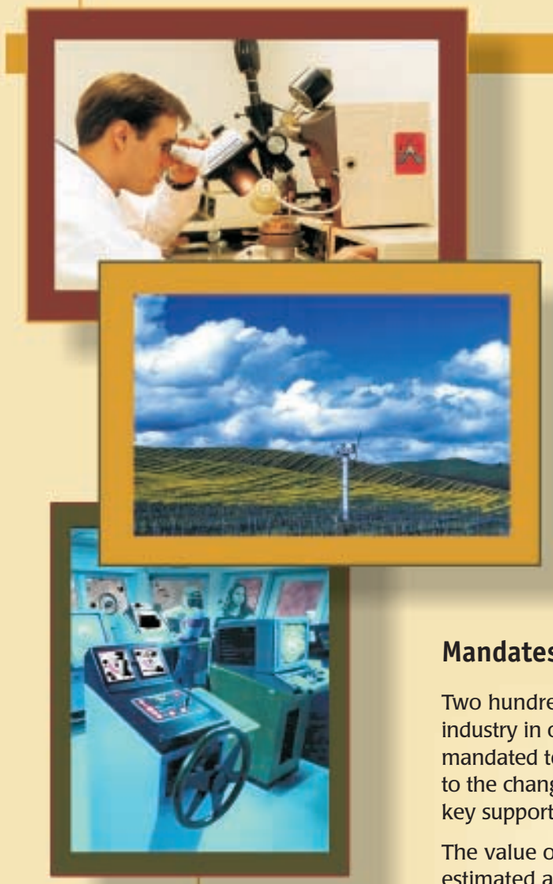
The information in this pamphlet was collected in winter, 2002

Applied Research and Innovation

in Canada's Colleges and Institutes

VISION

Colleges and Institutes are key players in community and regional innovation and technology transfer through the application and commercialization of new knowledge.



CAPACITY

Infrastructure

Colleges and Institutes have an aggregate of over 60,000 full-time and 150,000 part-time employees and a capital inventory of more than $25 billion. The college sector assets represent the largest concentration of equipment and relevant expertise available to support innovation and economic development in Canada.

Technologies

- Colleges offer state-of-the-market technologies and the latest in scientific laboratories for research.
- Over 50 colleges have been supported by the Canada Foundation for Innovation and provincial funds to develop the most recent advanced technologies and research infrastructure.

Mandates

Two hundred Colleges and Institutes serve Canada's business and industry in over nine hundred communities. Colleges and Institutes are mandated to be closely tied to their communities and to respond quickly to the changing knowledge and skill needs of their regions. They provide key support to economic development goals and strategies.

The value of college and institute applied research and development is estimated at $100-$200 million annually. Many colleges have created specialized "centers of innovation" supported by industry, governments, and institutional investments.

200 Colleges and Institutes in over 900 communities across Canada with $100 – $200 million in applied research and development annually

ADVANCING INNOVATION THROUGH INDUSTRY-LED RESEARCH

College and Institute applied research and development activities respond to industry needs and goals, leading to rapid economic impact.

Innovative college and institute applied research projects across Canada have:

- Established an incubation service for start-up medical device companies in British Columbia
- Developed and patented Lamela pulp – a higher yield, environmentally friendly pulp product in Quebec.
- Established research in virtual reality through 3D interfaces in New Brunswick.
- Initiated advanced visualization projects to model urban and rural land use scenarios in Ontario.
- Created a transfeeder compressed forage boiler system firm with 200 employees and $750 million in sales in Alberta.
- Developed special software programs for engineering analysis in Manitoba.
- Created a Molecular Cell Biology Lab for genomics, proteomics, and diagnostic systems in Ontario.
- Developed a prototype of generator controller for IT firm in Nova Scotia.
- Licensed technology for analysis and purification of active ingredients in neutraceuticals in British Columbia.
- Conducted internationally-recognized marine research simulation in Newfoundland.
- Produced 91 prototypes in 2001.