

## **Canadian Institutes of Health Research**

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**Dr. David Brener**

**Director, Research Translation Programs**

**Thematic Focus:** Biotechnology, medical devices and health research

### **Description of Organization**

Research is the foundation of our health care system. Through new discoveries and treatments, research improves quality of life and reduces the economic burden of illness on the economy.

Canadian Institutes of Health Research (CIHR), an Agency of the Government of Canada, is the country's premier strategic funder of health research. CIHR funds health researchers based in universities and teaching hospitals in all ten provinces.

With an annual budget of \$662 million, 94 cents of every dollar CIHR receives from the federal government goes directly to Canadian health researchers who have met rigorous internationally accepted standards of excellence.

CIHR invests in high quality people, excellent science and training the next generation - the backbone of a knowledge-based economy.

CIHR engages partners along the entire spectrum of health research including the private sector, from the setting of research priorities, through funding of the actual research and translating the resulting knowledge into practice. CIHR partnerships are true collaborations - driven by shared goals and a desire to improve health and quality of life.

Increasingly, we are building on Canadian discoveries, improving the quality of life of Canadians and elsewhere, building economic benefits in Canada while exporting the health benefits around the world. Health related companies, including biotech companies, are responsible for more than \$20 billion in revenues each year.

Through its 13 institutes, CIHR is creating new opportunities for Canadian health researchers to produce results that matter to Canadians and the rest of the world.

**CANMET Energy Technology Centre (Natural Resources Canada)**

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**Mr. Bruce Clements**

**Research Scientist, Group Leader, Advanced Controls and Simulations**

**Mr. Joseph Rubino**

**Senior Business Development Officer, International**

**Thematic Focus:** Sustainable and Alternate Energy and Environmental Technologies

**Description of Organization**

The CANMET Energy Technology Centre (CETC) is Canada's leading federal government S&T organization with a mandate to develop and demonstrate energy efficient, alternative and renewable energy technologies and processes. CETC's clean energy expertise includes: bioenergy, solar, wind, geothermal and hydrogen/fuel cell technologies among others. CETC has facilities in Devon, Alberta; Varennes, Québec; and Ottawa, Ontario.

**ChemRoutes Corporation**

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**Mr. Aubrey Mendonca****President and Founder**

**Thematic Focus:** Biotechnology, health research and medical devices

**Description of Organization**

Custom designed laboratories in Edmonton, Alberta with 10 chemists on staff.

**Chem Route Capabilities:**

- Contract Research (synthesis of building blocks, templates based on client needs). Present capability from 10 gm to kg quantities.
- FTE based research (short term and long term)
- Tropical Diseases Research (chemistry libraries)
- Project based research (based on client needs)

ChemKits<sup>TM</sup> Proprietary building blocks developed and commercialized by ChemRoutes (non ACD)

ChemCores<sup>TM</sup>: Templates developed by ChemRoutes

ChemLibraries<sup>TM</sup>: Exclusive or non-exclusive offerings

**Equipment:** Traditional medicinal chemistry apparatus  
Microwave equipment  
IRORI, Robbins and Radley's equipment  
HPLC equipment  
Access to 300 MHz Varian NMR instrument  
Access to TOF, MALDI, CI MS instruments  
Own all our fume hoods and lab equipment

**Advantages**

- (i) Intellectual Property protected
- (ii) Added security with projects (all internally double coded)
- (iii) Work all performed by Ph.D. candidates
- (iv) All clients are repeat clients
- (v) Easy availability of chemicals
- (vi) Time deadlines met
- (vii) Most cost effective long term FTE compared to USA, Europe
- (viii) Price competitive with India and China on individual projects

**Electrovaya Inc.**

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**Dr. Sankar Das Gupta****Chief Executive Officer**

**Thematic Focus:** Nanoscience and nanotechnology / Sustainable and Alternate Energy and Environmental Technologies / The Next Generation of Information Technologies

**Description of Organization**

Electrovaya is a world leader in the field of portable power solutions with its award-winning, patented Lithium Ion SuperPolymer® battery technology which is the highest energy density in the world. A number of cutting-edge products have developed out of this technological breakthrough, including applications for mobile computing, UPS, stand-by power and zero-emission vehicles.

**Research Interest/Product Development & Business Opportunities**

Electrovaya is a research intensive company in the area of material science, nanotechnology, lithium ion battery, mobile computing and zero emission electric vehicles. Currently Electrovaya has a large portfolio of patents relating to cells, batteries and critical materials, with approximately 200 patents issued and pending applications worldwide, and lithium ion super-polymer cells with energy density greater than 220Wh/kg. Electrovaya's power systems are used in Aerospace, Mobile computing, solar energy storage, emergency power, and Zero Emission vehicles.

Electrovaya has effectively incorporated the needs of mobile users who require superior performance, efficiency, power management and security with the Scribbler Tablet PC. These tablets are revolutionizing the healthcare industry, as doctors and nurses are now able to retrieve and update patient data during patient visits. It also offers a convenient built-in biometric sensor that gives the government confidence that personal data and confidential information are kept secure, while enterprise and sales force automation users are able to maximize productivity from anywhere, with its high versatility, flexibility and mobility.

The Maya 100 Electric Vehicle is powered by Electrovaya's Li-Ion SuperPolymer® 45 kWh battery, with a driving range of 200-250 miles. Not only does this vehicle meet highway speeds, but it is also adequately accelerates and is environmentally friendly.

NASA Astronauts orbiting earth will soon use Extravehicular Mobility Units powered by Electrovaya's Lithium Ion SuperPolymer® battery during their space walk missions outside of the space craft.

**International Partner/Alliances**

Electrovaya has alliances and partnerships with major corporations in the USA, Canada, Europe and Japan. Electrovaya is also an OEM partner with Microsoft and distributes its Tablet PC's and battery solutions to many successful distributors and resellers, such as Ingram Micro. In the aerospace sector, Electrovaya is a prime contractor for a number of aerospace applications.

Electrovaya's battery technology has received numerous awards award the world, including the most recent NASA Award of Excellence, the Frost & Sullivan Award for the best Energy Storage Technology, and the Chairman Award at the Power Sources Conference. Electrovaya is well known in many verticals, including healthcare, education, aerospace, clean transportation, aerospace, enterprise and sales force automation, and can be researched in hundreds of various reports, journals, and online listings.

## **Mission Objectives**

Electrovaya is a world leader in the field of portable power solutions with its award-winning, patented Lithium Ion SuperPolymer® battery technology. Its goal is to become the leading provider of Tablet PCs, the premier supplier of portable power for aerospace and wireless sectors, and the principal technology champion in the development of alternative energy applications.

**Falconbridge Limited (Falconbridge Technology Centre)**

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**Dr. Phillip Mackey**

**Principal Engineer**

**Mr. Philip Thwaites**

**Engineer (Manager, Process Controls)**

**Thematic Focus:** Other (Non ferrous metals processing and mining)

**Description of Organization**

On June 30, Falconbridge common shareholders and Noranda common and junior preference shareholders approved an amalgamation proposal that completes the merger of Noranda Inc. and Falconbridge Limited.

Falconbridge is a leading copper and nickel company with investments in fully integrated zinc and aluminum assets. It is also one of the world's largest recyclers and processors of metal-bearing materials. The Company's primary focus is the identification and development of world-class copper and nickel mining deposits.

Our Core Businesses: Nickel and Copper

Falconbridge is the third-largest producer of refined nickel in the world. We have two nickel operations:

- Integrated Nickel Operations (INO) includes mines and plants in Sudbury and Raglan in Canada, a refinery at Nikkelverk in Norway and a significant custom feed business.
- Falcondo in the Dominican Republic is a ferronickel operation.

Falconbridge is also an important copper producer. We ranked twelfth in the world in 2004. We are Canada's largest copper producer. Our copper operations include Kidd Creek in Canada and Collahuasi and Lomas Bayas in Chile.

The Company employs 16,000 people at operations and offices in 18 countries and is listed on The New York Stock Exchange (FAL) and the Toronto Stock Exchange (FAL.LV).

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**Prof. John Hepburn**  
**Vice President, Research**

**Thematic Focus:** Other (Advanced Education and Research)

### **Description of Organization**

UBC's Office of Research supports the development of outstanding research in all disciplines including research carried out by students, postdoctoral fellows and research associates. Some of the most important concerns of the Office of Research are increasing research funding from all sectors and encouraging local national and international research partnerships and exchanges.

Additionally, UBC encourages and supports technology transfer and commercialization of research discoveries through patents, licenses and spin off company creation and developing new models for knowledge translation. In fact, UBC was listed in a 2005 article in The Scientist magazine as one of North America's top 10 universities for both the quantity and quality patents issued.

The UBC University Industry Liason Office (UILO), which manages the IP created at UBC, is consistently rated as one of the best in North America, in terms of US patents issued, royalty income, and spin-off companies created.

UBC researchers attract nearly 400 million dollars annually in research funding annually from government, industry and non-profit foundations. In addition, UBC research has led to the creation of 130 spin-off companies, and has been the driving force behind BC's rapidly growing biotech industry.

The university's many present and past eminent researchers include Robert Mundell, UBC alumni, and former faculty member, winner of the Nobel Prize in Economic Sciences in 1999, and the late Michael Smith, who won the Nobel Prize for Chemistry in 1993.

UBC's goal is to excel internationally in research and teaching, and to be a leader in discovery and scholarship that is the wellspring of scientific, technological, social, cultural and organizational innovation in the nation and in the world. By conducting basic and applied research of international acclaim, and by educating graduates with excellent creative and analytical skills, the university aims to enhance its impact on society. The broad goals of the university are: to create innovative ideas and methodologies across the array of disciplines; to improve the quality of life for the citizens of Canada; to chart a course for society to lead and to adapt to rapid technological and social changes; to lead in the creation of cultural, artistic and literary work that elevates the human spirit; to aid economic development and diversification through the creation of new industries and the strengthening of existing businesses; to inform responsible ethical, legal, environmental and public policy; to enhance recognition of our global interdependence by fostering international cooperation and exchange of knowledge.

To accomplish these goals, the University of British Columbia has identified critical strategies, which are described in its TREK 2010 vision statement embracing people, learning, research, community, and internationalization. These include, attracting and retaining outstanding faculty, offering students an intellectually challenging education, conducting leading-edge research, fostering social, cultural and economic development in the community, and enhancing our participation in international affairs. The successful impact of universities on society is determined by the quality of its people. The Canada Research Chairs (CRC) program is visionary in scope because it focuses on people and has been created at a time when the competition for talented new faculty across North America collides with a major retirement/renewal cycle over the next decade. The CRC program is a major part of UBC's retention/renewal strategy for the very best researchers. Over 140 chairs have been recruited (with more to be recruited) to UBC in areas where UBC already has strength as well as new areas, which may in the future be as important as the discovery of the double helix structure of DNA is to genomics, or the invention of the transistor is to communication technology, or the establishment of Medicare in Canada is to the quality of

life for Canadians. Major discoveries and scholarship do not happen in a vacuum; they require a rich research climate of effective collaboration, the necessary administrative and technical support, and access to the appropriate infrastructure. The University is committed to fostering such a research milieu.