

canarie

Canada's Advanced Research and Innovation Network
Le réseau évolué de recherche et d'innovation du Canada



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CANARIE INVESTS MILLIONS MORE IN CUTTING-EDGE CANADIAN RESEARCH

Nine new IT projects win \$10.5 million in funding

(Banff, Alberta) CANARIE, Canada's Advanced Research and Innovation Network, is pleased to announce at the **Summit 09** international cyber infrastructure conference, the second-round of winners in CANARIE's flagship IT research funding program. **These nine winners, from research facilities across Canada**, represent some of the very best and brightest IT research initiatives in the country.

CANARIE has awarded nine projects with an impressive **\$10.5 million in funding**, in addition to providing CANARIE's dedicated, high-speed network for these researchers to facilitate data-sharing and collaboration.

Top funding recipients are:

- **University of Calgary (\$2.1 million)** for their Cyber-SKA Canada project
- **McGill University (\$1.8 million)** for their international brain-imaging network "GBRAIN"
- **University of Western Ontario (\$1.2 million)** for their synchrotron experiments network "ANISE"

To date, CANARIE has invested **\$25.5 million** in ground-breaking research funding through two rounds of its **Network-Enabled Platform Program (NEP)**. CANARIE's NEP program was the **first in Canada** to fund the development of platforms required to analyze massive amounts of data.

"Researchers need more than just a high-speed network to share and analyze information. They require specialized tools and software to help connect the dots in their research. CANARIE is proud to play a role at both of these levels to advance leading research across this truly innovative country that will improve the wealth, wellness and wellbeing of Canadians" said **CANARIE President Guy Bujold**.

Please see attached for a full list of CANARIE's nine successful NEP-2 projects. All projects are expected to be completed by the fall of 2011.

About CANARIE:

CANARIE Inc. is Canada's Advanced Research and Innovation Network. Established in 1993, CANARIE manages an ultra high-speed network, hundreds of times faster than the internet, which facilitates leading-edge research and big science across Canada and around the world. More than 39,000 researchers at nearly 200 Canadian universities and colleges use the CANARIE Network, as well as researchers at institutes, hospitals, and government laboratories throughout the country. The CANARIE Network enables researchers to share and analyze massive amounts of data, which can lead to ground-breaking scientific discoveries. CANARIE's network, programs, and strategic partnerships with 12 regional networks in Canada, and 100 international networks in more than 80 countries, stimulate research that **delivers economic, social, and cultural benefits to Canadians.**

CANARIE is a non-profit corporation supported by membership fees, with major funding of its programs and activities provided by the Government of Canada. For additional information, please visit: www.canarie.ca. All project funding from CANARIE is subject to contract finalization.

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CANARIE's NEP-2 Funding Recipients

University of Calgary: \$2.1 million

Project: Designing & Creating Cyber-SKA Canada

Description: This project will develop cyber infrastructure to support and analyze astrophysical data collected by the Square Kilometre Array (SKA), which will be the largest radio-telescope ever built in the world, once it's completed in 2020.

McGill University (Montreal): \$1.8 million

Project: GBRAIN - Global Brain Imaging Research Network

Description: McGill will develop a high-bandwidth international network to connect brain researchers from around the world. This network will allow real-time, joint exploration of large brain datasets, resulting in improved medical research in Canada and abroad.

University of Western Ontario (London): \$1.2 million

Project: ANISE – Active Network for Information for Synchrotron Experiments

Description: A synchrotron is a high-energy beam used in a variety of scientific disciplines to study the structure of materials. The ANISE network will give users of Canada's synchrotron in Saskatoon, as well as users of other synchrotrons in the US, near real-time analysis of data from synchrotron experiments, enabling users to assess the utility of experiments as they run.

Cybera Inc. (Calgary): \$1.1 million

Project: GeoCENS – Geospatial Cyberinfrastructure for Environmental Sensing

Description: GeoCENS will be an online portal for biogeoscientists to access and share both historical and real-time environmental data from a variety of remote locations. This portal will allow researchers to better analyze Canada's climate, species, water systems and how its biosphere is changing over time.

University of Victoria: \$980,000

Project: Data from the Deep, Judgments from the Crowds

Description: This project will develop innovative software that will allow users to analyze video and acoustic data collected from underwater observatories. The project will allow the general public to interact with the software (also known as 'crowd-sourcing') to help researchers analyze huge amounts of underwater data. The project will also partner with a school on Vancouver Island to set up a mini observatory where kids can remotely manipulate underwater sensors to explore a variety of ocean environments.

Cybera Inc. (Calgary): \$933,000

Project: CESWP: Cloud-Enabled Space Weather Modeling & Data Assimilation Program

Description: This platform will use cloud technologies to simplify and add flexibility to current space weather simulation tools. Integrating the data capabilities of the Canadian Space Science Data Portal, this platform will be timely in supporting the Canadian government's focus on space exploration.

McGill University (Montreal): \$928,000

Project: Open Orchestra

Description: Open Orchestra is a network platform that will provide individual musicians with the very realistic experience of playing in a professional orchestra using immersive panoramic video displays and surround sound. The student's performance can be recorded for later review and feedback by a remotely-located instructor.

University of British Columbia (Vancouver): \$927,000

Project: C-BRASS: Canadian Bioinformatics Resources as Semantic Services

Description: Bioinformatics is the application of IT to health research and biology. C-BRASS will apply Semantic Web technologies to bioinformatics resources across Canada. This will improve research efficiency by encoding 'biological knowledge' into the web itself, reducing researchers' costs and time-to-discovery. C-BRASS will serve as a prototype for Semantic Web services in other domains.

University of Victoria: \$578,000

Project: HEP Legacy Data Project

Description: One of the key issues in high-energy physics (HEP) and other research fields is the long-term preservation of data from completed experimental projects. The HEP Legacy Data Project will use computer virtualization, grid and cloud computing techniques to develop a platform that will preserve HEP data and software, and enable the analysis of data by researchers for many years to come.