



LIST OF FUNDED PROJECTS

Please choose the sort order:

1. Click on the name of the institution to obtain a list of other participating institutions.
2. Click on the project leader to obtain a list of CFI researchers.

* Indicates the amount is final.

<ul style="list-style-type: none"> Leading Institution¹ Province Project Leader² 	<ul style="list-style-type: none"> Mechanism Project Title 	Research Discipline	Area of Application	Amount	Date of the Final Decision
<ul style="list-style-type: none"> University of New Brunswick New Brunswick Gants, David 	<ul style="list-style-type: none"> Canada Research Chairs Infrastructure Fund Research databases and computer infrastructure for proposed Chair in Humanities Computing, University of New Brunswick. 	Information Technology	Electronic and related industries	\$ 56,768*	October 2002
<ul style="list-style-type: none"> University of New Brunswick New Brunswick Kim, Donghyun 	<ul style="list-style-type: none"> On-going New Opportunities Fund Remote-Controlled Autonomous GPS RTK System 	Information Technology	Electronic and related industries	\$ 175,528*	June 2004
<ul style="list-style-type: none"> University of New Brunswick New Brunswick Petersen, Brent 	<ul style="list-style-type: none"> Research Development Fund Optical Fibre Systems Laboratory 	Electrical and Electronic Engineering	Electronic and related industries	\$ 497,514*	June 2002

Total : **3 projects** - Amount **729,810 \$**

[Close the window](#)



Canada Foundation for Innovation
Fondation canadienne pour l'innovation

NEW OPPORTUNITIES FUND AWARD

PRESENTED TO

DR. DONGHYUN KIM

UNIVERSITY OF NEW BRUNSWICK

The New Opportunities Fund enables Canadian universities to provide infrastructure for newly recruited faculty members.

These researchers help strengthen Canada's capacity for world-class research and technology development.

The Canada Foundation for Innovation is proud to recognize the talent and creativity of these new members of the university research community.

President and CEO

JUNE 2004

Date





10

SEPTEMBER



News@UNB

- [FREDERICTON NEWS](#)
- [SAINT JOHN NEWS](#)
- [BOTH CAMPUSES](#)

SEARCH & ARCHIVES

EVENTS CALENDAR

EXPERTS @ UNB

eDAILY / eNEWS

PROFILES

CAMPUS PUBLICATIONS

Careers

Classifieds

Sports

Fredericton
Saint John

Weather

Fredericton
Saint John

HELP

Syndication
is available for this site

▶▶ [Events Calendar](#)
Help (adding an event,
faq)

▶▶ [Downloading an
event to your calendar](#)

▶▶ [Subscribing to
News@UNB email](#)

▶▶ [Making News@UNB
your start-up Page](#)

UNBF RESEARCHER RECEIVES SUPPORT FOR OUT-OF-THIS-WORLD REMOTE CONTROL SYSTEM

June 29, 2004

UNB Fredericton News Release: D015

Sandra Howland, Manager, Communications and Marketing (506) 458-7968

Imagine using satellite signals and the Internet to operate large industrial cranes and mining equipment by remote control. A researcher at the University of New Brunswick in Fredericton is working on a system to accomplish just that.

Donghyun (Don) Kim, a research associate in the department of geodesy and geomatics engineering, has received \$181,424 from the Canada Foundation for Innovation (CFI) in support of his research. The total project is valued at \$453,560 with the contribution from CFI.

"This funding from CFI will help Dr. Kim to acquire the hi-tech infrastructure required for his work," said Greg Kealey, UNB's vice-president (research). This infrastructure includes GPS (global positioning system) simulators, GPS receivers, data communication and network equipment, micro controller training and development kits, and RTK (real-time kinematic) base station control equipment.

Over the next five years, Dr. Kim will develop a remote-controlled autonomous GPS RTK system which will have many practical capabilities, including remotely controlling industrial machines and construction equipment.

"This system will have significant economic and safety benefits to Canadian industry, such as expanding technology exports, increasing productivity, and reducing the number of accidents," said Dr. Kealey. "Dr. Kim's research will further enhance UNB's reputation as one of North America's leading centres for research on global navigation satellite systems."

The funding awarded to Dr. Kim was part of a June 29 national announcement of \$23.8 million to researchers at 40 institutions.

"These CFI investments will provide world-class facilities and cutting-edge tools for Canadian researches," said Carmen Charette, CFI's interim president and CEO.

The CFI investments are awarded through two funds: \$18.3 million under the New Opportunities Fund, which enables universities to provide infrastructure support to newly recruited academic staff, and \$5.5 million under the Infrastructure Operating Fund which assists universities with operating and maintenance costs associated with new infrastructure projects.

A complete list of New Opportunities Fund projects, by university, can be found at www.innovation.ca.

CFI is an independent corporation created in 1997 by the Government of Canada to strengthen the ability of Canadian universities, colleges, research hospitals, and other non-profit institutions to carry out world-class research and technology development to benefit Canadians.

- 30 -

search
<input type="text"/> <input type="button" value="Go"/>
online news
Home
Telegraph Journal
Times & Transcript
Daily Gleaner News
Sports
Opinion
radio stations
The Tide 98.1
online services
Classifieds
Wheels
Wireless
Careers
CareerBeacon.com
Personals
Movie Central
Communities/Events
Contests/Fun Stuff
free content
Obituaries
[here]
L'Étoile
Life & Entertainment
Business
Homes
N.B. Art Shop
Tourism
Whatever
Game Break
Crossword

Daily Gleaner | School - Life
As published on page B3 on July 5, 2004

Foundation funds research associate's project at UNB

The Daily Gleaner

Imagine using satellite signals and the Internet to operate large industrial cranes and mining equipment by remote control.

A researcher at the University of New Brunswick in Fredericton is working on a system to accomplish just that.

Donghyun (Don) Kim, a research associate in the department of geodesy and geomatics engineering, has received \$181,424 from the Canada Foundation for Innovation (CFI) in support of his research.

The total project is valued at \$453,560 with the contribution from CFI.

"This funding from CFI will help Dr. Kim to acquire the hi-tech infrastructure required for his work," said Greg Kealey, UNB's vice-president (research).

This infrastructure includes GPS (global positioning system) simulators, GPS receivers, data communication and network equipment, micro controller training and development kits, and RTK (real-time kinematic) base station control equipment.

Over the next five years, Kim will develop a remote-controlled autonomous GPS RTK system, which will have many practical capabilities, including remotely controlling industrial machines and construction equipment.

"This system will have significant economic and safety benefits to Canadian industry, such as expanding technology exports, increasing productivity, and reducing the number of accidents," said Kealey. "Dr. Kim's research will further enhance UNB's reputation as one of North America's leading centres for research on global navigation satellite systems."

The funding awarded to Kim was part of a June 29 national announcement of \$23.8 million to researchers at 40 institutions.

"These CFI investments will provide world-class facilities and cutting-edge tools for Canadian researches," said Carmen Charette, CFI's interim president and CEO.

Other features:

GGE News - 2004 - Windows Internet Explorer


http://gge.unb.ca/News/2004/2004.html#Burka

File Edit View Favorites Tools Help

Google G Go Bookmarks 17 blocked Check AutoLink AutoFill Settings

GGE News - 2004

Dr. Don Kim Recipient of CFI Funding



In June the [Canada Foundation for Innovation](#) (CFI) notified Dr. Don Kim that funding for his research project had been approved. Dr. Kim, a Research Associate in the Department, has received the grant for his New Opportunities Fund Project entitled *Remote-Controlled Autonomous GPS RTK System*. The total project is valued at \$453,560 with Dr. Kim receiving almost \$181,500 from CFI.

GPS signal simulators, GPS receivers, data communication and network equipment, microcontroller training/development kits, RTK base station control equipment, and computers constitute the infrastructure for the project. The infrastructure will enable Dr. Kim to establish new research programs at UNB, including GPS signal simulation (GPS receiver and RTK system performance tests), system integration, broadband data communication, microcontroller applications (robotic and autonomous RTK system), and geo-spatial fusion (location-based service). Over the five year lifetime of the research program, an enhanced RTK system will be developed with the capability of remotely controlling a machine (such as a gantry crane, or mining or construction equipment), autonomously operating a machine, providing location-based service over wired and wireless networks, and demonstrating its use for ultra-high precision machine control, local deformation monitoring, long-baseline RTK, and satellite attitude determination. This practical system will have significant economic and safety benefits to Canadian industry through increasing productivity, expanding technology exports to overseas markets, reducing accidents, and improving safety.

The project will further enhance UNB's reputation as one of North America's leading centres for research on global navigation satellite systems. Our congratulations go to Dr. Kim on this significant achievement.

Click on the thumbnail image to get a better look at Dr. Kim being presented the funding certificate, 34 KB.

Read the associated [UNB news release](#).

[Back to the top of the page](#)

Internet 100%