



For more information, call 1-800-668-2374 ext. 6741

Canadian Manufacturing » Metalworking » News

### \$100,000 for human enhancement

Funding to help Quebec exoskeleton technology firm sell unique mobility mechanism for soldiers  
BY CM STAFF ON MARCH 09, 2011 12:34PM



Email Print Text Size

Share or bookmark this post:



B-Temia, a Quebec City manufacturer of computer-controlled motorized orthopaedic supports, what the company calls "dermoskeletons" (a variation of commonly known exoskeletons), is getting a \$100,000 helping hand from the federal government to market its unique technology to the military sector.

The repayable funding was granted through the Federal government's Business and Regional Growth program and will be used to help the new start-up market its innovative technology.

The company's aim is to eliminate soldiers' musculoskeletal injuries, which typically occur because of heavy loads they carry on their backs (up to approximately 134 lb/61 kg) while they're in the field.

The company defines its dermoskeleton mechanism as an automated orthopaedic supporting brace integrated onto a given joint-segment structure of the user's body without any interaction with the environment. The device is essentially human enhancement technology; its movements mirror those of the associated body segments it's designed to enhance.

What makes B-Temia's technology distinct from exoskeleton solutions the military has used in the past (articulated mechanisms that run in parallel with the body structure) is in its integration of three key components: a sensor network that observes technical details and biomechanical characteristics of the user's mobility; movement recognition software; and control software.

These three integrated components means that the company's motorized orthopaedic devices provide "active biomechanical direct assistance of musculoskeletal structures of the human body...and have no mechanical restrictions in mobility for any movement."

B-Temia is a private start-up company founded by Stephane Bedard, a specialist in biomechanics, who also founded Victho Human Bionics Inc., and invented the "Power Knee", the first motorized bionic leg that is currently commercialized by Iceland firm Ossur.

For a more futuristic take on exoskeleton technology, Iron Man style, see this [YouTube video](#).

[B-Temia](#)

Top Image: [Engadget](#)

Convert to **PHD PLASMA**

**SAVE up to 70%!**

**PHD 2000 PLASMA HIGH DENSITY** **AMERICAN TORCH TIP ATTC**

<http://www.save70k.com/plasma>

Connect here with Canadian Businesses

News. Products. Connections.

11 industry partners  
1 powerful network

Canadian MANUFACTURING .com

IN PARTNERSHIP



PRODUCERS OF CMTS  
Canadian Manufacturing Technology Show

[Email](#)   [Print](#)   [Text Size](#)

More Articles like this

Japan F-35 purchase could reduce price tag for Canada

Airboss scores \$22.5M military protective gear deals

CAE wins military contracts worth \$125M

\$100M new military contracts for CAE

CAE awarded contracts worth C\$115 million

[About Us](#)   [Contact Us](#)   [Advertising](#)   [Privacy Policy](#)   [Site Map](#)   [Help/FAQs](#)   [RSS](#)

© 2008-2012 Business Information Group. All rights reserved.

