



## Federal Funding for Two Engineering Research Projects

April 7, 2009

*Pictured at Right: Jacques Carette and James Cotton*



Two professors in the Faculty of Engineering have been selected to receive **Canada Foundation for Innovation** funding through the **Leaders Opportunity Fund**.

A multimedia research initiative led by **Jacques Carette**, associate professor of computing and software, received \$258,886 in funding. Research to aid in the recovery of waste heat energy undertaken by **James Cotton**, associate professor of mechanical engineering, received \$99,493.

Two other researchers at McMaster also received CFI-LOF awards bringing the total funding for the University to \$672,021.

Prof. Carette is collaborating with co-investigators **Andrew Mactavish**, associate professor of multimedia in the Faculty of Humanities, and Jeffrey Trzeciak, university librarian, to investigate the effects that digital display size and resolution have on the user experience in the design of games and virtual environments. The project is titled G-ScalE: Gaming Scalability Environment.

Prof. Cotton is using the CFI-LOF funding to develop a Thermal Energy Recovery and Management (ThERM) testing platform that will assist in the recovery of waste heat energy. This is one of the most effective ways of increasing the availability of energy without adverse environmental effects.

**Waliul Khan**, assistant professor of Pathology and Molecular Medicine in the Faculty of Health Sciences, received \$250,341 for intestinal pathophysiology and host defense research. **Tristan Carter**, assistant professor of anthropology, received \$63,301 to establish the McMaster Archaeological X-Ray Fluorescence Lab for study of the elemental characterization of archaeological and related geological materials.

*The CFI announced a total of \$26,712,283 in new funds to support 117 projects at 29 institutions across Canada. A total of \$20,559,448 was awarded under the Leaders Opportunity Fund, which provides infrastructure support to Canadian institutions so they can attract and retain the very best of today and tomorrow's leading researchers at a time of intense international competition for knowledge workers. The remaining \$6,152,835 was awarded under the Infrastructure Operating Fund, a complementary program that assists research institutions with the incremental operating and maintenance costs associated with new infrastructure projects.*

*For a complete list of the projects awarded, please visit [www.innovation.ca](http://www.innovation.ca).*