

The Agency of Industrial Science and Technology (AIST) of Japan has developed and patented a series of highly-efficient robotic systems useful for a variety of applications.

APPLICATIONS OF THE OPPORTUNITY

Each patented technology is supported by a staff of eminent scientists and researchers who are available to meet specific requirements of a range of applications to enable:

- Robotic arms;
- Walking functionality;
- Simple and complex operations;
- Wide variety of accessibility and surfaces; and
- Efficient and ergonomically-friendly human-assisted applications.

PATENTED TECHNOLOGY

Current U.S. patents granted that protect the technology include:

<i>US Patent</i>	<i>Features</i>
4,834,200	<ul style="list-style-type: none"> • Method and apparatus for dynamic walking control of robot. • Legs can be extended to accommodate uneven surfaces. • Stairs or steps are easily negotiated.
5,361,186	<ul style="list-style-type: none"> • Self reconfigurable cellular robotic system. • Transportable into a small space or through a narrow passage.
5,551,308	<ul style="list-style-type: none"> • Method and apparatus for controlling a force assist apparatus. • Human-borne device that overcomes problems of actuator saturation. • Cited by 6,522,952.
5,890,396	<ul style="list-style-type: none"> • Arm mechanism with independent control of position and orientation. • Better accuracy of effector positioning through the use of two independent systems. • Improved operator comprehension.
6,430,473	<ul style="list-style-type: none"> • Power assist apparatus and control method for same. • Provides safe human-power assistance with low energy consumption, improved response speed, and control.
6,522,952	<ul style="list-style-type: none"> • Method and system for controlling cooperative object-transporting robot. • Reduces the weight borne by the human operator in half. • Cites 5,551,308.



INTELLECTUAL CAPITAL

On April 1, 2001, Japan's National Institute of Advanced Industrial Science and Technology began operations as the "new" AIST.

The new AIST is a research organization that comprises 15 research institutes previously under the former Agency of Industrial Science and Technology in the Ministry of International Trade and Industry and the Weights and Measures Training Institute.

AIST is Japan's largest public research organization with research facilities and more than 3,200 employees across Japan.

The Intelligent Systems Institute of AIST is the home of the scientists who developed this technology. The Institute operates a number of research groups to support the technology of this opportunity, as well as to provide a range of robotic-based solutions to your particular requirement..

FOR MORE INFORMATION

AIST is seeking to license these technologies and assist with their commercialization success to qualified organizations.

Consideration will be provided to a range of financial, strategic, and commercial investment options.

Certain circumstances will warrant consideration for nominal funding from AIST.

Contact: Mike Allan
 Tel: 216-881-8526
 Fax: 216-881-8522
 email: mfallan@firstprincipals.com
 Website: <http://www.firstprincipals.com>