

## ARTIFICIAL HEART PUMP

### The Opportunity

The National Institute of Advanced Industrial Science and Technology (AIST) of Japan has developed and patented a centrifugal artificial heart pump with a significant reduction of parts. In addition, the rotor is suspended in a non-contacting state by magnetic force.

### Patented Technology

Current U.S. patent protection includes:

US Patent	Features
6,015,434	<ul style="list-style-type: none"> <li>Artificial ventricular assist pump with magnetically-suspended rotor.</li> <li>Impeller is hollow to enable blood flow through it.</li> <li>Device design prevents obstruction and blood coagulation.</li> </ul>

### Intellectual Capital

AIST (National Institute of Advanced Industrial Science and Technology) is Japan's extensive public research organization established in 2001. AIST and its predecessors have advanced technology and supported Japanese industries since 1876.

Although not specifically a government institution, AIST is largely funded by the Japanese government. Comprised of more than 50 autonomous research units in various innovative research fields, about 2500 research scientists and well over 3000 visiting scientists contribute to goals of:

- Sustainable society
- Industrial competitiveness
- Local industrial development
- Industrial technology policies.

### For More Information

AIST is seeking to license this technology and provide assistance with its 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.



Monopivot centrifugal pump



Hydrodynamic levitating centrifugal pump

AIST Home Page:

[www.aist.go.jp/aist\\_e/about\\_aist/index.html](http://www.aist.go.jp/aist_e/about_aist/index.html).

Additional descriptions of the technology:

[www.aist.go.jp/aist\\_e/museum/science/20/20.html](http://www.aist.go.jp/aist_e/museum/science/20/20.html).

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