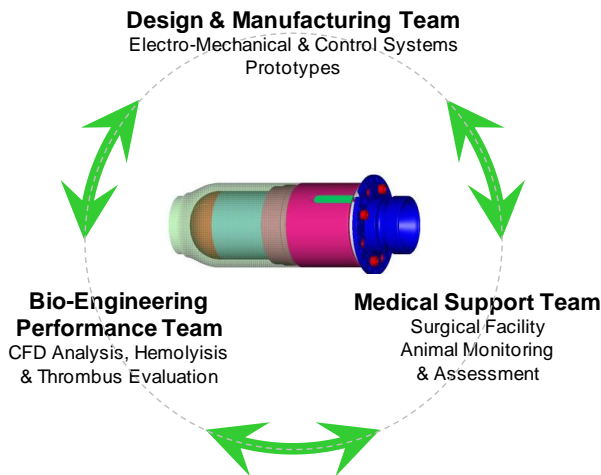


Blood Pumps Experience

RBTS engineering has been instrumental in design, development, prototype manufacturing, and testing of advanced technology systems for medical applications, such as implantable human heart-assist blood pumps.

RBTS has worked on over a dozen mechanical circulatory support device programs ranging in size from infant to adult applications. RBTS activities range from bearings design and rotordynamics on LVAD devices to subassemblies design, fabrication, prototyping and testing of LVADs and the Fontan Pumps.

Recent advances in manufacturing technologies and material science present opportunities for improved designs eliminating thrombosis, and reducing hemolysis from existing pump designs, while providing higher efficiency & cooler operation.



Multi-organizational development teams are in place with highly qualified professionals. These teams are positioned to ensure achieving the objectives through various stages of pump development life cycle:

- Electro-mechanical: Bearings, rotor dynamics, vibration, fabrication, materials, drive system, controls, assembly, testing & qualification
- Bio-engineering: Hydraulic/CFD, efficiency, hemolysis & thrombosis testing & analysis
- Medical: Surgical facilities, in vivo testing, monitoring, and assessment

The RBTS team is positioned to support your project from concept to completion.

