



## Liquid Propulsion System Development

### AxSTREAM.SPACE™ Advantage

Integrated end-to-end engineering platform developed to commercialize turbopumps from white paper to metal.

Global technical support team of 75 engineers with guaranteed, 1-hour, response time.

Automation and AI capabilities, substantially reducing manpower requirements and need for advanced expertise.

20-year track record of corporate excellence and successful execution of internal and external turbomachinery and system commercialization.

Software | Consulting | Training

One Platform, Infinite Solutions

SoftInWay, Inc. is a global R&D engineering company providing industry leading software and consulting services for the development of efficient liquid propulsion systems and components.

Using AxSTREAM.SPACE™, a special bundle of software modules created particularly for organizations and start-ups developing innovative technology in the Space industry, engineers can run through each step of the development process from conceptual design to geometry of the turbomachinery components, nozzles, and engine. AxSTREAM.SPACE™ gives its users the full array of capabilities to design, analyze and optimize liquid propulsion systems, including:

#### Component Level Design and Analysis

- 1D/2D/3D Aerodynamic Design and Structural Analysis
  - Oxidizer and Fuel Pump
  - Turbine
- Nozzle Design and Cooling
- Rotor Dynamics and Bearing Analysis

#### System Level Design and Analysis

- Pipeline Modeling
- Turbopump Secondary Flow System Modeling
  - Leakages and Axial Force Optimization
- Rocket Engine Layout
- Automation of Turbopump Development