

Mainstream Engineering Corporation

Mission Statement & Disciplines



Mainstream's core purpose is to continually strive to design, develop and manufacture the finest energy conversion and thermal control products in the world and to lead the world in research in these areas.

Strategic Objectives

To operate a successful business organization, we will:

- Continue to set bold, difficult goals and not limit these goals to minor extensions of today's technology
- Pursue funding through SBIR, BAA and other proposals
- Maintain a balanced operating budget between projects, products and support
- Meet established schedules
- Leverage government R&D funding to support commercialization
- Develop customer relations and generate repeat business by exceeding customer expectations for quality
- Maintain a staff who are passionate about their work and enjoy the challenges of achieving bold advances

To operate a successful technical organization, we will:

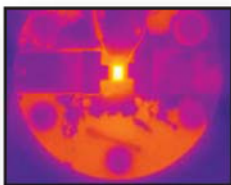
- Possess and maintain superior knowledge
- Anticipate and master new skills
- Seek innovations to improve technologies
- Protect intellectual property with patents
- Commercialize technology within our technology focus
- License technology outside our technology focus

Principles

- **Customer Satisfaction:** We understand our customers' needs, deliver products and solutions that meet those needs, and exceed expectations consistent with our business goals. We recognize that customer satisfaction is paramount to our reputation and success.
- **Professionalism:** We conduct ourselves at all times as professionals, exhibiting courtesy, respect for others, integrity in all we do and a strong work ethic.
- **Knowledge:** We are a learning organization. We improve and challenge conventional wisdom. We keep open minds and are committed to lifelong learning through continuing education, training and conferences.
- **Employee Satisfaction:** We understand our employees' needs so we can motivate, recognize and reward them. We are open and honest in our communications. We ask for feedback continuously and respond appropriately.
- **Accountability:** We accept personal accountability for our actions and decisions.
- **Safety:** We do our jobs safely. No job is so urgent that we cannot take the time and use the necessary equipment to perform it safely.

Technology Focus

THERMAL CONTROL



- High-Heat Flux Cooling
- Heat Transfer Fluids
- Spacecraft Systems
- Military ECUs/Refrigerators
- Cryocoolers

ENERGY CONVERSION



- Engines
- Motors/Alternators
- Batteries/Ultracapacitors
- Solar Power
- Hydrogen Technologies

TURBOMACHINERY



- Compressors
- Turbines
- Magnetic Bearings
- Air/Refrigeration/Steam Process Fluids

CHEMICAL TECHNOLOGY



- Chemical Heating/Cooling
- Sorption/Catalysts
- Chemical Replacements
- Fuels/Lubricants
- Water Purification
- Functional Coatings

MATERIALS SCIENCE



- Nanotube Fabrication/Characterization
- Thermal Enhancement
- Electrochemical Enhancement
- Sorption Enhancement
- Chemical Sensors