

# Innovative Engineering Solutions

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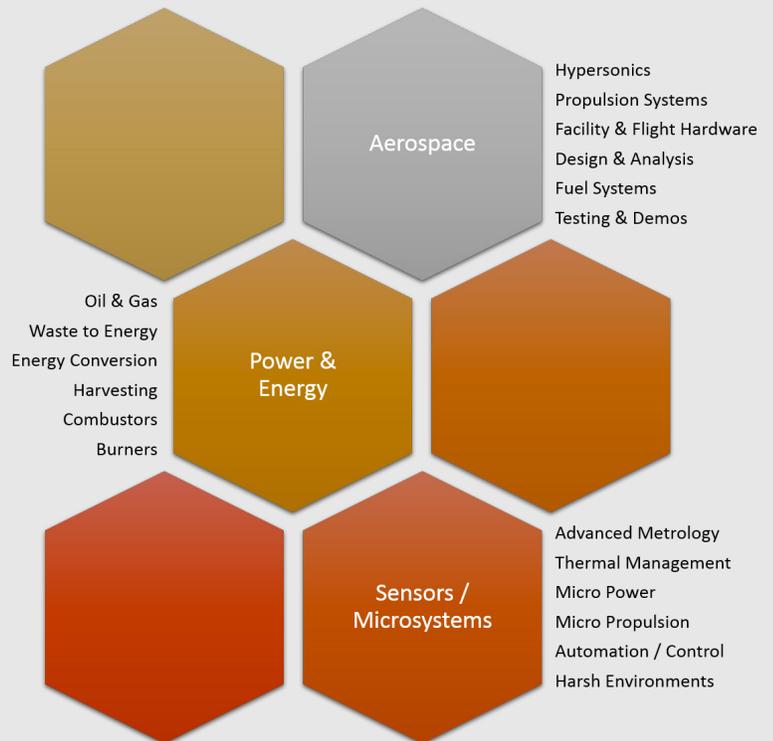
## Markets/ Customers

Innoveering, LLC is an advanced technology and products company founded in 2012 by former aerospace industry executives and senior R&D engineers with extensive experience in the Aerospace, Defense and Energy markets. Since our founding, we have prototyped and developed systems for U.S. Government agencies (DOE, DOD, DOE, NIST), large corporations, and smaller companies.

## Leadership Statement

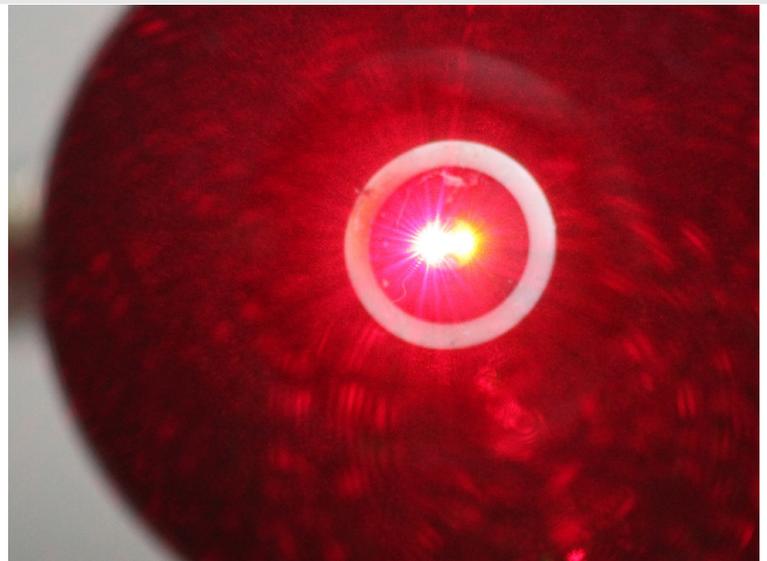
We develop technical solutions for energy, power, and propulsion system needs. Our team brings decades of experience developing and testing advanced aerospace propulsion concepts and systems.

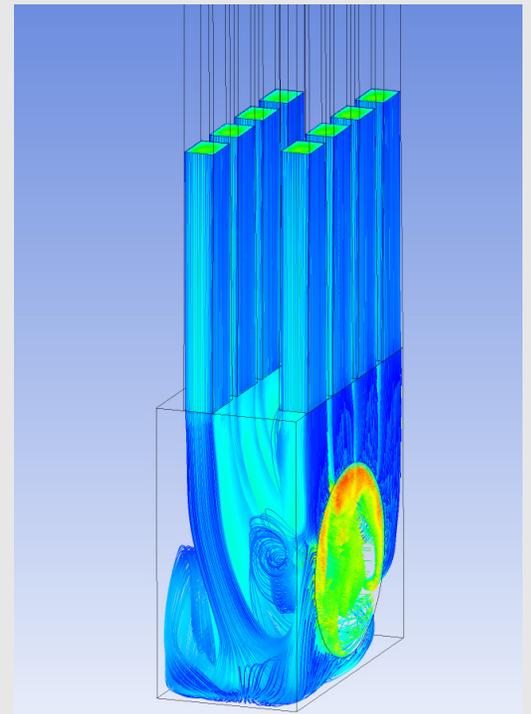
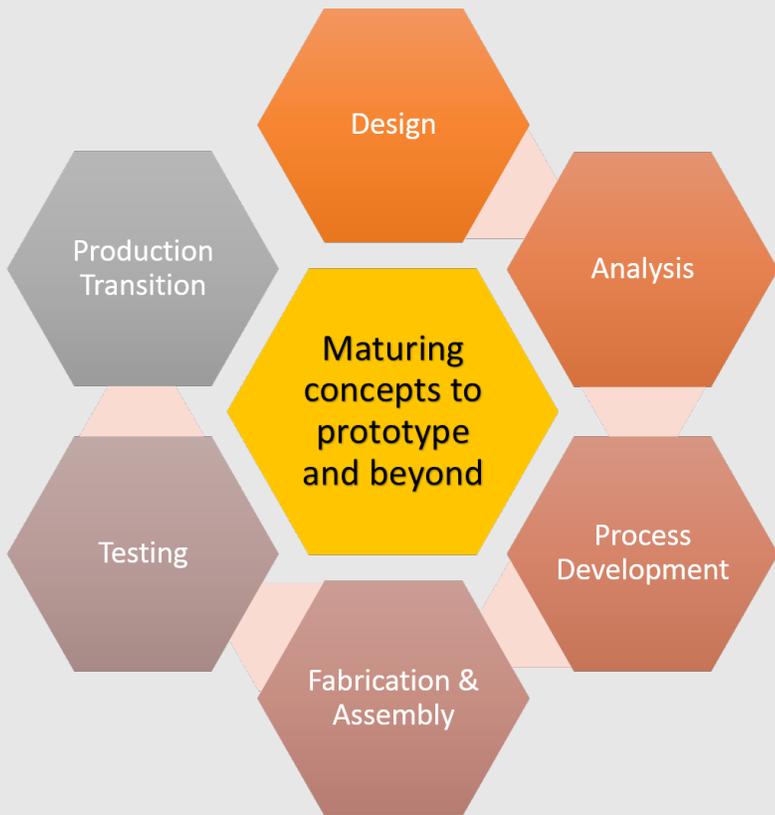
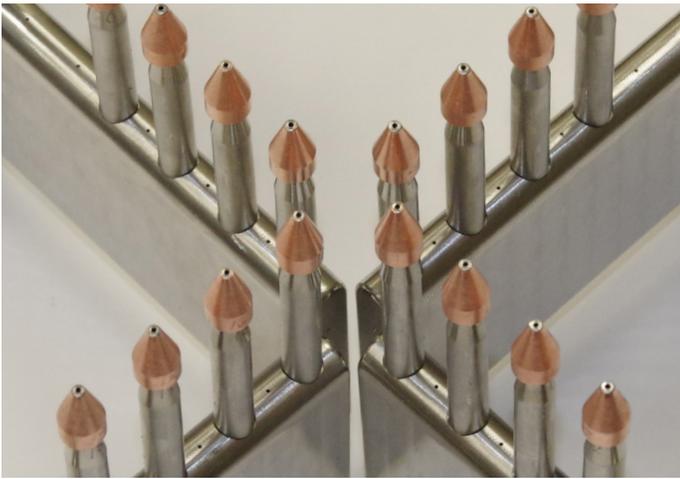
Innoveering's principals and senior staff have pioneered a multitude of propulsion technologies and testing methods, both ground and flight. We're developing sensors and controls for challenging applications, capable of operating at uniquely high pressures, temperatures, and locations while delivering on high sensitivity, dynamic response, and small packaging.



## Core Competencies

- High-speed gas dynamics (supersonic & hypersonic)
- Combustion processes, power and energy systems, chemical kinetics, reacting flows, reformation and energy conversion
- Novel chemistry and catalysts
- Thermodynamics, thermal-fluids engineering, multi-phase heat and mass transfer
- Sensors and advanced metrology, MEMS design and fabrication
- Testing & evaluation (including facility design, build and operational management).





### Engineering Services:

- Hardware Fabrication/Manufacturing and Support
- Computational Fluid Dynamics (CFD)
- Structural/Thermal Analysis
- Chemical Kinetics Modeling
- Structural Modelling & Analysis
- Information Technology, Software (LABVIEW), Controls, Data Acquisition (DAQ)
- RAMS (Reliability and Failure Modes, Effects and Criticality Analysis (FMECA)

### Engineering Disciplines:

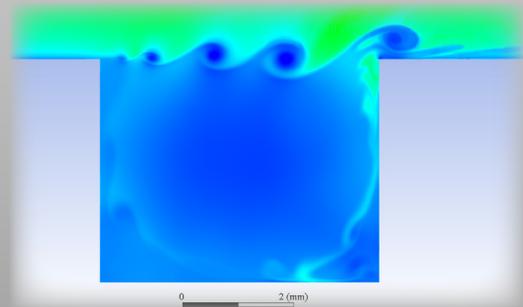
- Thermal and Fluids Engineering
- Electro-Mechanical Engineering
- Specialized Data Acquisition and Controls
- Advanced Signal Processing
- Chemical and Petrochemical Engineering
- Combustion Engineering
- Systems Engineering
- Complex Multi-disciplinary Project Engineering
- Onsite Engineering Investigations & Support
- Planning, Performance and Commercialization

### Specialized Engineering & Technical Skills:

- Combustors, Ramjets, Scramjets, High Temperature / High Pressure Hardware
- Aerospace Systems Engineering
- Hot/Cold Fuel System Design, Fabrication & Integration
- Industrial Harsh Process Control Systems
- Micro Electromechanical Systems (MEMS)
- Sensor, Actuator & Control Systems
- High Temperature, High Pressure Combustion
- Oil and Gas Systems
- High Performance, High Efficiency Engine Development

### Commercialization Options

- Small Business Innovative Research (SBIR)
- Small Business Technology Transfer (STTR)
- Corporate Partnering for Fed/State/Local Contracts
- Technology Development, Transfer & Licensing or Production



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