

CAPABILITY STATEMENT: Visceral Performance Inc.

Sovereign Canadian Advanced Manufacturing | Aerospace & Defense

Company Overview

Visceral Performance Inc. (VPI) is a specialized Montreal-based SME providing high-performance structural solutions for the Defense, Aerospace, and Industrial sectors. We bridge the critical gap between complex R&D and industrial-scale production. As a 100% Canadian-owned entity, we assist Prime contractors in meeting their **Industrial and Technological Benefits (ITB)** and **Value Proposition (VP)** obligations through domestic innovation in advanced materials and precision fabrication.

Core Competencies

1. Advanced Composite Structures (CFRTP & CFRTS)

Specialized fabrication of continuous Carbon Fiber Reinforced Thermoplastics (CFRTP) and Thermoset matrix systems (CFRTS).

- **Versatile OoA Consolidation:** While specializing in thermoplastics, our proprietary Out-of-Autoclave (OoA) technology is fully adaptable to **High-Performance Thermoset Matrix Systems**. This allows for the production of mission-critical parts with autoclave-equivalent mechanical properties while significantly reducing lead times and tooling costs.
- **High-Performance Resins:** Expert processing of high-temperature matrices including **PEEK, PEI, and PPS** for extreme environments.
- **Complex Geometries:** Advanced engineering and manufacture of variable cross-section tubular structures and integrated shapes.

2. Precision Metal & Hybrid Fabrication

High-fidelity fabrication and integration of exotic and high-strength alloys.

- **Technical Proficiency:** Specialized fusion welding and machining of **Titanium, Aluminum, and Stainless Steel** for high-stress structural applications.
- **Procedural Integrity:** Internal welding procedures are developed in alignment with AWS aerospace and naval standards, ensuring structural integrity and repeatability for mission-critical hardware.

- **Hybrid Assemblies:** Integration of composite-to-metal bonded structures, optimized for weight reduction in airframes and tactical systems.

Past Performance & Strategic Development

- **Aerospace R&D (SABIC):** Successfully engineered and manufactured advanced thermoplastic structural prototypes (PEI-based) for rigorous aerospace testing and evaluation.
- **Infrastructure Ruggedization (BIXI):** Managed the design-to-production transition for high-durability aluminum transport assemblies. Proved the ability to scale specialized manufacturing for components subjected to high-abuse, high-cycle municipal environments.
- **Advanced Application Readiness:** Engineering capabilities optimized for the development of high-pressure composite casings and lightweight airframe housings for the UAV/RPAS sector. Technical focus on ruggedizing composite-to-metal interfaces for tactical equipment subjected to high-stress environments.

Differentiators

- **Manufacturing Maturity:** Proven track record of taking complex aerospace R&D and successfully transitioning it into a ruggedized pilot production phase.
- **Autoclave Bypass:** Our material-agnostic OoA process eliminates the "autoclave bottleneck," allowing Primes to get parts to assembly significantly faster than traditional thermoset cycles.
- **Sovereign Security:** 100% Canadian-owned and operated, providing a secure domestic source for advanced components and eliminating international traffic in arms (ITAR) bottlenecks.

Company Data

Administrative Info	Industry Classifications
Location: Montreal, QC, Canada	Primary NAICS: 336413 (Aerospace Parts)

Administrative Info	Industry Classifications
Status: CADSI Member	Secondary NAICS: 336419, 332994, 335991, 325211
Ownership: 100% Canadian SME	FSC Codes: 1560 (Airframe Components)
CAGE/NCAGE: L12V3	FSC Codes: 1420 (Missile), 1550 (UAV)
Quality: AS9100D (Implementation Phase)	Security: CGP (Registration Phase)
Cyber: CPCSC Level 1 (Readiness Phase)	Designated Official: Tony Giannascoli