

**SATLANTIC INC.**

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Satlantic Inc. is a new company incorporated in Nova Scotia, Canada. The company was established by the principal, Dr. Marlon Lewis, in 1991, and currently employs a staff of 7. Satlantic is located on the Halifax waterfront, leasing 2,500 square feet of office/manufacturing space. Facilities include a Tempest-class walk-in Faraday cage, optical calibration and characterization equipment, CAD systems, a Silicon Graphics visualization computer, image analysis software, satellite reception antennas, and a range of microwave, optical and computer test equipment.

**Product/Service:** Satlantic is involved in research, product development and manufacturing in the defence, space and telecommunications fields. Current clients include the U.S. Navy, NASA, the Canadian Space Agency, Orbital Sciences Corp. and GTE/Telos.

**Array Antennas:** A new family of flat plate, electronically steered, array antennas is under development. Applications include military and civilian telecommunications and remote sensing on both fixed and mobile platforms. Advantages of flat plate antennas include the lack of mechanical steering, a greater aesthetic, covert and aerodynamic profile, and potentially lower manufacturing costs.

**Optical Sensors:** An optical sensing head for air-deployed oceanographic buoys has been developed for a variety of operational uses, including ground truthing of satellite sensors.

**Satellite Earth Stations:** Low cost PC-based satellite earth receiving stations for NOAA geostationary and polar-orbiting weather satellites are currently manufactured.

**Earth Observation Satellites:** Satlantic is involved with a number of earth observing missions, in planning, implementation and data analysis. Work on ocean observing satellite sensors and missions is taking place with U.S., European, and Japanese agencies and corporations, and includes both space and ground segments.

**Communications Satellites:** Planning and development of several satellite communications systems is underway, ranging from low data rate UHF systems to Gigabit per second applications at Ka band.

**Keywords:** Array Antennas, Optical Sensors, Satellite Earth Stations, Earth Observation, Satellite Communications.