

SED SYSTEMS INC.

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SED's research finds new ways to make technology serve customers' needs.

Company background. SED Systems Inc., an advanced-technology systems engineering company, offers unique capabilities and comprehensive experience related to remote sensing technology. These include turnkey ground stations, telemetry, tracking and command systems, real-time software, meteorological data reduction systems, scientific instruments and sensors for spaceflight, and remote sensing services and products.

Services. Remote sensing services include the continuous operation of Canada's Prince Albert Satellite Station (PASS) over the past 15 years. This contract, to the Canada Centre for Remote Sensing, has assured the reception of quality remote sensing data from LANDSAT, NOAA and SPOT and the distribution of a variety of photographic and digital products to meet the needs of the Canadian remote sensing community.

Through co-operation with the Saskatchewan Research Council, SED is currently pursuing the production of value-added information products, derived from satellite remote sensing data.

Products. SED's first ground station contract, the conversion of a radar laboratory into PASS, helped bring remote sensing to Canada in 1971. Since then, SED has built over 40 earth stations, primarily for satellite communications applications, and installed them around the world, from the Canadian Arctic to the tropics of Brazil.

The first atmospheric test instrument (WAMDII: a Michelson imaging interferometer) to fly aboard the Space Shuttle in 1989 is being designed and built by SED while a Supra-thermal Ion Mass Spectrometer (SMS), another SED design, will be the first foreign instrument on a Japanese spacecraft, EXOS-D.

Projects. SED has played a major role in such projects as the joint surveillance systems (JSS), search and rescue satellite (SARSAT), Canadian patrol frigate (CPF), Anik A, B, C, and D, satellite business systems (SBS) and, of course, LANDSAT. Among the company's key customers are Hughes Aircraft, Paramax Electronics (SPERRY), Telesat Canada, Spar Aerospace, Raytheon, INMARSAT, the Canadian departments of National Defence and Energy, Mines and Resources, and others.