

Aerospace and Defence

Canada's aerospace industry ranks fifth-largest in the world, after the U.S., the U.K., France and Germany. This sector generated revenues of \$23.6 billion in 2008, with R&D investments totaling more than \$1.3 billion. In 2008, 83% of all aerospace revenues in Canada were derived from the export of goods and services.



CANADA'S 400-PLUS AEROSPACE FIRMS are located in every region of the country. Geographically, the highest concentration of firms in Canada is in Quebec, followed by Ontario, with solid centres of expertise in Manitoba and in Atlantic Canada. Whether it's civil aviation or defence, Canada leads in many market segments—partly thanks to 20 universities offering advanced degrees in aerospace and aerospace engineering.

Canada's aerospace sector is highly oriented toward commercial markets. Canada occupies a global leadership position in the fields of commercial flight simulators (with an 81% market share), small gas turbine engines (43%), environmental control systems (41%), regional aircraft (35%) and civil helicopters (22%).

Other important segments are corporate aircraft, structural assemblies, avionics and maintenance, repair and overhaul (MRO) services. Global OEMs and Tier 1 suppliers with Canadian operations include U.S. giants **Boeing Co.** and **Pratt & Whitney**, **General Dynamics Corporation**, **Lockheed Martin Corporation** and **Rolls-Royce Group plc**. Representing Tiers 2 through 4 are firms such as Washington-based aerospace and defence manufacturer **Esterline Technologies Corp.**



The British Columbia Institute of Technology's (BCIT) Aerospace Technology Campus (ATC), in Richmond, British Columbia offers Canada's largest selections of aviation and aerospace training programs. This new 300,000-square-foot facility cost \$77 million to build and includes 40 classrooms, computer labs, a library and a control tower simulator. BCIT is the first educational institution in Canada to offer its students a control tower simulator that re-creates the real-world air traffic control environment.

¹ KPMG. *Competitive Alternatives 2010*.

² IBM. *Plant Location International*. 2009. Rankings based on relative quality scores associated with high-value-added aerospace components manufacturing.

³ Loewendahl, H. *Future Challenges of Investment Promotion*. fDi Intelligence. September 23, 2009. p. 37.