



OPAL-RT Technologies Inc.

Company Description

Since its establishment in 1997 in Montreal, Canada, OPAL-RT Technologies has evolved into a globally recognized leader in the development of open real-time digital simulators and Hardware-in-the-Loop (HIL) testing equipment. Driven by a deep commitment to engineering excellence and technological innovation, the company fundamentally transforms how the world's most complex electro-mechanical and power electronics systems are designed, tested, and validated. By bridging the gap between theoretical mathematical models and physical hardware, OPAL-RT empowers engineers to safely and efficiently develop the advanced technologies of tomorrow.

At the core of OPAL-RT's success is its pioneering approach to utilizing commercial off-the-shelf (COTS) computer hardware combined with highly advanced, proprietary software such as the RT-LAB environment. This open-architecture philosophy disrupts the traditional paradigm of relying on rigid, expensive, closed-box simulation solutions. Instead, it offers unprecedented flexibility, scalability, and cost-effectiveness. Engineers and researchers can seamlessly integrate their specific models, significantly accelerating product development cycles, reducing overall time-to-market, and minimizing both initial capital investments and long-term ownership costs.

In today's rapidly changing technological landscape, OPAL-RT's solutions are more critical than ever. The company is at the forefront of the greatest engineering megatrends of our era, playing a pivotal role in the electrification of transportation, the advancement of autonomous driving systems, and the modernization of global power grids through renewable energy integration. Because testing these cutting-edge systems in the real world can be prohibitively dangerous or expensive, OPAL-RT's HIL simulators allow manufacturers to run thousands of complex testing scenarios—including extreme failure conditions—in a completely safe, accurate, and highly responsive laboratory environment.

Today, OPAL-RT is a truly global organization with subsidiaries and offices across the United States, France, Germany, and India. Supported by a highly skilled workforce of hundreds of employees worldwide, the company delivers mission-critical simulation solutions to over 1,500 esteemed clients spanning more than 50 countries. Its impressive client roster includes leading automotive manufacturers, Tier-1 suppliers, aerospace pioneers, major power utilities, and world-renowned academic and research institutions. Looking to the future, OPAL-RT remains fiercely dedicated to its founding mission: democratizing access to high-performance real-time simulation and actively contributing to a safer, more sustainable, and technologically advanced world.

Company Details

Head Office

Canada

Main Business

自動車、航空宇宙、パワーエレクトロニクス、電力網（スマートグリッド）向けのオープンなリアルタイムシミュレーター、HILS（Hardware-in-the-Loop Simulation）システム、およびラピッドコントロールプロトタイピング（RCP）などの関連ソフトウェア・テスト装置の開発・販売。

President

Jean Bélanger（ジャン・ベランジャー）

Established

1997年

Capital

非公開

URL

<https://www.opal-rt.com/>

Offices

Main Office

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