



Canada's Semiconductor Ecosystem, Accelerated

FABrIC is a proposed five-year, \$200M project to secure Canada's future in semiconductors. FABrIC lowers barriers faced by entrepreneurs in Canadian companies who develop microchip manufacturing processes, create Internet-connected products and services, and export into a global market growing 6-8% annually and expected to reach \$1 trillion dollars by 2030 (McKinsey & Company).

FABrIC accelerates R&D in Canadian enterprises with non-repayable grants and access to the CMC Innovation Platform – a nation-wide chip design and manufacturing capability backed by a trusted global supply chain and deep technical expertise.

FABrIC grows Canada's semiconductor ecosystem, leverages existing chip design and manufacturing facilities, and attracts talent and foreign investment, keeping Canada at the forefront of advanced manufacturing. With FABrIC, business leaders, engineers, scientists, students, and professors work better together and ensure that the Intellectual Property (IP) they create is put to work for Canada.

In five years, **FABrIC** will create a resilient and sustainable semiconductor ecosystem, create 3000 jobs, enable entrepreneurs to start 75 new companies, support 155 R&D projects and develop 20 novel industrial manufacturing processes, enable 1,000 patents, 850 industrial innovations, train 4,000-5,000 Highly Qualified Personnel (HQP) who will graduate and enter industry, and contribute between \$500M to \$1B to Canada's GDP. FABrIC will also enable the world-class academic research of 15,000 students and professors which is also key to national technological strength and success. The resulting advanced sensor and computer technologies will incorporate quantum technologies, Artificial Intelligence (AI), photonics, semiconductors, and MicroElectroMechanical Systems (MEMS) and enable new products and services for the Internet of Things (IoT).

Get connected! **FABrIC** is led by CMC Microsystems along with 14 founding organizations and will bring together 300+ groups, including service providers, equipment manufacturers and component suppliers, academics, and not-for-profit organizations who are Canada's technology community.

Microchips (chips, integrated circuits, semiconductors) are at the heart of electronic devices essential in virtually all industries. Canada's ICT sector contributed greater than \$100B to Canada's GDP in 2021 (ISED, 2021). A secure supply of semiconductors and the capability to design and manufacture chips are critical capabilities for Canada.

This enables a resilient, cybersecure digital economy and places Canada in a leadership position for innovations in electrified transportation, smart solutions for climate change, healthcare, and more.

Connect to stay in touch!



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FABrIC is a project proposal to Canada's Federal Government with a start date in 2024, subject to funding.

