

# MITACS ACCELERATE

A **provider of antenna and filter products, systems, and coverage solutions** for public safety and private wireless networks is seeking to collaborate with university researchers on an antenna project. The company is interested in sponsoring a graduate student or postdoctoral fellow through the **MITACS ACCELERATE** internship program ([www.mitacsaccelerate.ca](http://www.mitacsaccelerate.ca)) to work on these projects.

The intern will spend approximately half of the time over a four-month period on-site with the company. The balance of the time will be spent at the university further advancing the research under the direction of an academic supervisor.

The company will contribute \$7.5K to the project, which will be matched by MITACS for a total value of \$15K. The intern will receive a minimum of \$10K for a stipend, with the remaining \$5K going to support research costs associated with the project.

## **PROJECT: MECHANICAL ENGINEERING**

**Large scale flat panel base station antenna internal structure design, cost effective radome configuration design, and environment analysis**

The company is developing a large scale, multiple layered panel antenna for base stations. A robust and rugged internal configuration is to be designed to support the multiple layered PCBs and reflectors, and an enclosure is required to protect the antenna from harsh environment. A clamping and supporting structure must be designed for antenna installation. A cost effective radome configuration that can be assembled easily in production is required. A comprehensive mechanical analysis is required to ensure the durability of the antenna under extreme weather conditions.

**Expertise: computer modeling**

**For more information, please contact:**

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