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GREAT MOMENTS IN RESEARCH

From TRIUMF to the Large Hadron Collider

When the news broke in summer 2012 that the elusive Higgs boson—the particle believed to be responsible for the mass of all things—had at last been detected, many UVic physicists were in the thick of the global celebration. The achievement caps decades of close collaboration with the TRI-University Meson Facility (TRIUMF), Canada's national laboratory for nuclear and particle physics, which UVic co-founded in 1969 in Vancouver. TRIUMF attracts top physicists from around the world to work on research in particle and nuclear physics, and nuclear medicine. Over the years, TRIUMF has been vital to UVic's leadership on a number of international particle physics projects, including ATLAS, one of two large detectors that record proton collisions at the massive Large Hadron Collider, where hints of the Higgs boson were found. UVic physicists brought Canada into the ATLAS project in 1992 and are responsible for several key components of the detector. Soon a new era of discovery will begin at TRIUMF, with completion of the UVic-led ARIEL accelerator, which will expand Canada's ability to produce and study isotopes for physics and medicine.

Nanomedicine