## uclear energy: U at the fore

TRIUMF is the biggest ect ever undertaken by any nadian university," says Dr. Nielson.

Dr. Nielson, director of the clear Research Center here. s referring to the largest and ost complex cyclotron ever Located at the University British Columbia, it will be ened by Prime Minister ideau Monday.

as

TRIUMF is a joint project of Universities (The University Alberta, Simon Fraser Univer-University of Victoria, and University of British Columfor research in nuclear ence and its applications. etotal cost of construction of RUMF was \$36 million, with Universities providing the Idings (\$5,650,000) and the ederal Government the mainder (through the Atomic ergy Control Board).

Of the total budget, 85% as spent in Canada; this esented major challenges to ny industries in B.C. and berta

The core of the project is a rticle accelerator called a clotron. It uses two essential inciples (acceleration of eqatively charged hydrogen ms and sector focussing) in mbination for the first time to 500-million-volt roduce mon beams with an imessive total intensity of 100 croamperes.

One of these beams is rected into an experimental rea to the west, where eximents with the protons emselves are performed. A cond, more intense, beam is nultaneously directed to the ast, where it is used to produce esons, in an intensity one ousand times greater than as been available hitherto. Thus the project is called a meson-factory." Along with wo other meson-factories of ifferent design and

he programme of the B.C. ertain conditions of disease.

The project was built in a six-year period, and to very high standards of safety. Much of the visual impact at the project is of the concrete blocks that shield personnel of the project (and the general public) against the

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radiations produced. The shielding above the cyclotron (on top of which the ceremony will take place) consists of three layers of concrete beams, each one hundred feet long and five feet thick.

THE GATEWAY, Thursday, February 5, 1976.



