



Canada's Capital University

Dr Kevin Graham, Professor
Department of Physics
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Electronics Specialist Position with Carleton University

The experimental particle physics group at Carleton University is seeking an electronics specialist or Electronics Engineer to work in close collaboration with the experimental physicists in our group on the development, testing and repair of electronics for use with particle detectors. We seek candidates who have expertise in the design, simulation and layout of fast pulse circuitry, multilayer board specification, ASIC+FPGA design, and microcontroller programming. The candidate must have the ability to analyze and repair a wide range of existing analog electronics and test equipment that is currently in use in our laboratory. The position will also entail some supervision of the work of technical staff and students. The particle physics group has access to state-of-the-art software for IC/ASIC simulation/design (HSPICE, Cadence), FPGA programming (Xilinx and Altera FPGA), and digital and mixed circuits design/verification (Verilog) in collaboration with the Carleton University Department of Electronics and CMC Microsystems.

The Carleton particle physics group has a wide experimental program that includes experiments in Geneva at CERN (ATLAS) and Sudbury (SNOLAB). We are actively involved in detector development for experiments to be located at SNOLAB, for tracking chamber design for a new initiative known as the International Linear Collider, and detector upgrades for ATLAS as well as major initiatives for next-generation detectors such as HyperKamiokande's water Cherenkov test experiment at CERN. More information on our research activities can be found at:

<http://www.physics.carleton.ca/research/>

The position will also entail work contributing to particle physics projects across Canada.

We are interested in candidates who have a minimum of a B.Sc. or a B.Eng. or equivalent and priority will be given to applicants who have five or more years of experience in a relevant research environment. The position is based in Ottawa although travel to the experimental sites may be required. Candidates interested in this position should send a CV and arrange to have three letters of recommendation sent to:

Prof. Kevin Graham
Department of Physics
3302 Herzberg Laboratories
Carleton University
Ottawa Ont, CANADA K1S 5B6

Email: Kevin_Graham@carleton.ca

Applications will be accepted until the position is filled. Carleton University is committed to fostering diversity within its community as a source of excellence, cultural enrichment, and social strength. We encourage all qualified persons to apply.