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MANULIFE FINANCIAL SCHOLARSHIP

Spinal cord injuries have devastating effects, and Carolyn looks to lessen the effects of these injuries on the victims and their families by developing improved neck injury criteria for head-first impacts.

By developing experimental and theoretical neck injury models while earning her PhD in mechanical engineering with a specialization in biomechanics at the University of British Columbia, Carolyn will improve the criteria that predict the likelihood of neck injury for various types of accidents. This research may lead to the design of new safety devices such as helmets, swimming pools or rollover airbags, as well as to the development of advanced spinal cord treatments.