



#### QUEEN'S FUEL CELL TEAM (QFCT)

The Queen's Fuel Cell Team is an undergraduate engineering design team consisting of about 40 members. The team provides students with hands-on experience in real engineering projects involving the application of fuel cell technology. QFCT was founded in 2005 and began with the modification of a golf cart to enable it to be powered by hydrogen fuel cells. The team successfully completed that project in 2009 and is now in the design phase of a new project: the production of the world's first fuel cell-powered snowmobile.

The team plans to showcase its design at the 2013 SAE Clean Snowmobile Challenge, an annual design competition for undergraduate students to reengineer snowmobiles to reduce emissions. Bombardier Recreational Products generously sponsored the Queen's team with a snowmobile in early 2010. The team is now designing parts and systems that it will use to convert the vehicle to fuel cell power later this year, and is raising funds for the project from donations and corporate sponsorship.

The complex and multidisciplinary nature of the current project rewards the team members with a diverse and challenging learning experience. Chemical, Mechanical and Electrical Engineering students work together to design components and systems that must integrate together and operate seamlessly. This helps team members develop a varied technical background, communication skills, and a fuller understanding of the engineering design process. They also gain experience in the business world through the pursuit of sponsorship.

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