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Pursuing a doctorate in mechanical engineering at the École Polytechnique de Montréal, Myriam is focusing on the development of metals through the process of rheocasting.

Rheocasting is an emerging procedure. It consists of injecting a semi-solid paste into a metal mould to make light, high strength metals that are more resistant and reliable than those produced by conventional methods. These metals may replace certain structural steels used to build vehicles, which is important to an industry that is trying to reduce the fuel consumption of its products. Myriam Brochu hopes that her research will develop further processes and alloys to significantly contribute to Quebec's economic vitality.