

ArcelorMittal Dofasco

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Founded in 1912, ArcelorMittal Dofasco is Canada's leading steel producer and a hallmark of advanced manufacturing in North America. With approximately 5,000 employees in Hamilton we are the city's largest private sector employer shipping 4.5 million net tons of high quality steel every year

Our vision for Advanced Manufacturing in our facility:

A digital enterprise where everything is connected, transforming how we do business with our customers, suppliers and internally.



- Collaborative Advanced Manufacturing project idea:

Pilot site to demonstrate the ability for digitalization technologies to better automate the steel refining process.

Benefits:

- Optimizing the use of raw materials and energy
- Boosting production by having a more precise control of the process, decreasing process and product variability
- Improving safety and working conditions for operators
- Replace manually repetitive tasks and substitute learning models and automated equipment

Challenges:

- Difficult environment: steel splash, heat, dust, electromagnetic fields
- Brownfield integration

Partnerships we are seeking:

- Sensor partners that can measure high temperatures and measure the temperature difference between two fluids at high temperatures
- Smart camera/AI partners that can approximate decision-making of the operator to visually confirm process conditions. Analyzing the digital information and automating the process control based on the quantification of digital video.