

# EMERGING CLUSTER: ADDITIVE MANUFACTURING

In 2018, significant activity occurred in the area of additive manufacturing, signalling the emergence of a new cluster of innovation and expertise in Oakville.



Also referred to as 3D printing, additive manufacturing is a faster and more environmentally friendly manufacturing process. The technology has broad applications spanning several of Oakville's key sectors, including automotive, aerospace, energy, industrial, and healthcare.

Oakville's additive manufacturing cluster will play a key role in supporting the sustainability of the town's manufacturing base. The technology will enhance the manufacturing supply chain locally, and provide an opportunity for Oakville companies to innovate and grow.

## **HOME TO THE ADDITIVE MANUFACTURING CENTRE OF EXCELLENCE**

Burloak Technologies, a division of Samuel, Son & Co. opened a 60,000 sq. ft. state-of-the-art facility specializing in additive manufacturing on the South Service Road in 2018. The Centre of Excellence was established to help companies adopt 3D printing processes by taking additive manufacturing from concept through to design and production.

The project received federal and provincial funding support as the additive manufacturing industry is forecasted to grow fivefold by 2020 and has been identified as a priority area of innovation and job growth for the Canadian economy.

# ADDITIVE MANUFACTURING IN OAKVILLE

## COMPANY COLLABORATION

Oakville company Javelin Technologies announced an integrated partnership with Cimatrix Solutions in 2018. The partnership combines the specialization of both firms to improve service to the 3D printing market and better position both companies for growth. By coordinating services, the companies can provide support to students, and small to large-scale manufacturers, with plans for a newly expanded industrial 3D printing lab opening in 2019.

## INDUSTRY NETWORK PARTNERSHIP

Oakville company Promotion joined Canada Makes in 2018, a network of private, public, academic, and non-profit entities dedicated to promoting the adoption and development of advanced and additive manufacturing in Canada.

The company has also partnered with the University of Waterloo's Multi-Scale Additive Manufacturing Lab to develop the next generation of metal additive manufacturing processes. In 2018, the Government of Canada invested \$5.5 million in the University of Waterloo-led initiative through the National Sciences and Engineering Research Council of Canada.

## NEXT GENERATION MANUFACTURING SUPERCLUSTER (NGEN)

The federal government announced a \$230 million investment to support the growth of an Ontario-based Next Generation Manufacturing Supercluster (NGen). The announcement was held in Oakville in November with funding to support next generation manufacturing capabilities, matched dollar for dollar by the private sector.

“Additive manufacturing is a rapidly developing technology that creates much lighter, stronger parts while reducing costs by consolidating multiple manufacturing steps into a single process.”

PETER ADAMS | PRESIDENT AND CO-FOUNDER OF BURLOAK TECHNOLOGIES