



## PRAXAIR NEWS RELEASE

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### **Praxair Announces TruForm™ AMBition Grant Recipients**

DANBURY, May 23, 2018 – In November 2017, Praxair, Inc. (NYSE: PX) announced its surface technologies business would offer a limited number of in-kind grants to select North American universities involved in metal additive manufacturing, also known as 3D printing.

The TruForm™ AMBition Grant was created by Praxair Surface Technologies (PST) to support the growth of additive manufacturing (AM) in the academic community. PST is a leading supplier of metal powders for AM, and supplies a full line of cobalt, copper, iron, nickel and titanium-based alloys to the industry.

TruForm™ is a gas atomized metal powder made specifically for 3D printing. Grant recipients will receive PST's TruForm™ metal powder, along with engineering support for AM projects.

“Today we are pleased to announce the winners of the TruForm™ AMBition Grant,” said Andy Shives, business manager for Additive Manufacturing at PST. “There were so many excellent applicants, we’re thrilled to announce more than five recipients.”

The following universities were selected:

- Indiana University-Purdue University Indianapolis
- University of Dayton
- University of Louisville
- University of Pittsburgh
- Pennsylvania State University
- Oklahoma State University-Stillwater

The winning projects involve various technologies, including laser powder bed, directed energy deposition and binder jetting for AM. PST will partner with AM programs at these universities to assist with analysis of microstructure effects, and to improve process parameters and part properties using PST's wide portfolio of metal alloys.

“As the academic community continues to embrace this emerging technology, PST is committed to supporting the next generation of engineers,” continued Shives.

#### **About Praxair**

Praxair, Inc. is a leading industrial gas company in North and South America and one of the largest worldwide. With market capitalization of approximately \$40 billion and 2017 sales of \$11 billion, the company employs over 26,000 people globally and has been named to the Dow Jones® World Sustainability Index for 15 consecutive years. Praxair produces, sells and distributes atmospheric, process and specialty gases, and high-performance surface coatings. Our products, services and technologies are making our planet more productive by bringing efficiency and environmental

benefits to a wide variety of industries, including aerospace, chemicals, food and beverage, electronics, energy, healthcare, manufacturing, primary metals and many others. For more information about the company, please visit our website at [www.praxair.com](http://www.praxair.com).

**About Praxair Surface Technologies**

Praxair Surface Technologies, with 2017 sales of \$617 million, offers a comprehensive array of high-performance coatings, materials, and technologies to the aviation, energy and other industries. By continuously advancing coatings technologies, Praxair Surface Technologies helps customers improve environmental performance, decrease energy consumption, extend component life, improve productivity, minimize downtime, reduce operating costs and produce high-quality products. Additional information about Praxair Surface Technologies is available at [www.praxairsurfacetechologies.com](http://www.praxairsurfacetechologies.com).

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