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VJ Technologies and Worcester Polytechnic Institute Partner to Enhance Casting Quality and Performance

Bohemia, NY – November 28, 2017: VJ Technologies (VJT), a global leader in providing digital X-ray inspection system and services solutions, announced today it is partnering with Worcester Polytechnic Institute (WPI), one of the nation’s leading engineering and technology universities to create a ValuCT X-ray system for Non-Destructive Testing (NDT) in a university setting. The system will be utilized by the Metal Processing Institute (MPI) and specifically within the Advanced Casting Research Center (ACRC). The system will not only educate students in digital radiography and X-ray inspection methods, but will also bring numerous advancements to the casting industry, especially in the area of NDT.

This game-changing development is one of the enormous benefits of industry and university working together. VJT is a member of the Advanced Casting Research Center (ACRC), a global foundry-related industry-university research collaborative. Because of this strong partnership, ValuCT will be used to support knowledge-based systems that can provide closed-loop feedback to enhance the casting quality in real time. Essential data from the ValuCT, along with the most advanced casting and solidification simulation software and practical casting knowledge, will provide the framework for a data fusion that results in a continuous process learning algorithm to mitigate and alleviate casting defects.

This is the first-time work of this caliber will be done in a university setting in the USA, whereby NDT data along with plant data as well as Data Sciences are being merged to transform data and information into knowledge via machine learning.

The detection and characterization of casting defects are critical elements in the modern casting process. These have been traditionally accomplished using destructive methods over several iterations of tedious casting experiments. Even most current X-ray non-destructive techniques (including digital radiography and computed tomography) are still costly and the data is difficult to interpret. VJT invested and developed ValuCT to provide the casting industry with an easy to use and cost-effective solution for X-ray non-destructive needs. ValuCT provides the user with simple and highly visual data that is readily interpreted, for a fraction of the cost of a traditional CT machine.

“Working alongside ACRC members and faculty further strengthens our strategic alliance and provides a learning platform not seen at this level before,” said Dr. Chen Dai, research & development engineer, VJ Technologies. “I look forward to the research and results from the work being done by the students to improve products and solve business problems.”

“We have enjoyed a long-standing relationship with VJ Technologies and are excited about having this ValuCT system in our facilities,” said Ning Sun, assistant research professor at the Metal Processing Institute. “Our students will learn first-hand the techniques and methods used in NDT that improve manufacturing processes, increase productivity and eliminate environmental waste.”

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About VJ Technologies

VJ Technologies engineers, designs, and manufactures world-class imaging software and hardware products, solutions, and services for industry, academy, and government.

Founded in 1987, VJT is a leading global provider of x-ray inspection solutions with locations in the United States, UK, France, India and China to provide a true global level of service. We apply our radioscopic digital imaging expertise to government agencies and nondestructive testing (NDT) markets throughout the world.

VJT develops and manufactures a complete line of automated, manual, and turnkey X-ray inspection systems. Primary market sectors include: automotive, aerospace, electronics, remediation, nuclear, oil & gas, and pipe & weld applications. VJT x-ray inspection systems are used for radioscopic inspection of products and assemblies to detect defects or foreign matter, reducing cost and time while increasing quality and safety.

VJT delivers a competitive advantage over other companies through our network of global offices. In the 21st century, VJT continues to nurture emerging technologies and provide innovative solutions for global customers.

Visit <http://www.vjt.com> for more information.

About Worcester Polytechnic Institute

Founded in 1865 in Worcester, Mass., WPI is one of the nation's first engineering and technology universities. Its 14 academic departments offer more than 50 undergraduate and graduate degree programs in science, engineering, technology, business, the social sciences, and the humanities and arts, leading to bachelor's, master's and doctoral degrees. WPI's talented faculty work with students on interdisciplinary research that seeks solutions to important and socially relevant problems in fields as diverse as the life sciences and bioengineering, energy, information security, materials processing, and robotics. Students also have the opportunity to make a difference to communities and organizations around the world through the university's innovative Global Projects Program. There are more than 40 WPI project centers throughout the Americas, Africa, Asia-Pacific, and Europe.

Visit <http://www.wpi.edu> and www.wpi.edu/+mpi for more information.