



For Immediate Publication

American Advanced Technology & Cybersecurity (AATC) University and R4 Ventures LLC (R4V) Enter Letter of Intent

The partnership will provide its cooling system solutions to AATC University campus locations.

Phoenix, AZ – December 16, 2019. American Advanced Technology & Cybersecurity (AATC) University, an international leader in educating transitioning military veterans in all disciplines related to construction, commissioning, and operations of data centers, announced today that AATC University and R4 Ventures LLC (R4V) have entered into a letter of intent where the two companies will partner to install and commission R4V's new patented cooling technologies for AATC University campuses and data centers.

Data center energy usage has risen dramatically the past 10 years and will continue to grow in-step with the processor-intensive, high-density applications used in high performance computing. Cooling is not only a logistical challenge that can cause significant downtime and lost capacity, but it is also costly for data centers, representing up to 40 percent of a data center's energy usage. R4V's patented Multistage Evaporative Cooling System (MECS) and Real Time Data Center Cooling System (RTDCCS) technology paired with AATC Universities' campus locations can save AATC University and its data centers 40 percent to 85 percent on cooling energy usage and costs.

“R4V offers a critical energy efficient cooling option for the comfort cooling of commercial and industrial buildings with its MECS and data center cooling with its RTDCCS,” said Dr. Tim Oergel, AATC University Founder, CEO, and Chairman of the Board of Regents. “More specifically to data centers, the sheer size and cooling needs of data centers today have surpassed many of the legacy cooling applications currently available.

“R4V applies semiconductor clean room process cooling methods (versus traditional comfort cooling) to data center server enclosure heat loads. This patented method cools heat

loads before hot air enters data center space. Our technologies eliminate hot and cold aisles and expensive containment.” said Dr. Darrell Richardson, Chief Executive Officer for R4V. “R4V will also develop custom curriculum teaching the theoretical and practical operation of both the MECS and RTDDCS as well as the proper methods of their installation, commissioning, operation, and maintenance.”

About AATC University

American Advanced Technology & Cybersecurity University offers accredited Data Center and Mission Critical Concentric Educational Programs and Services. The program provides students with a solid foundation of the fundamentals involved in working in a data center or mission critical environment. AATC is a veteran-owned university and provides programs and resources to assist transitioning U.S. Military Veterans interested in careers in mission critical operations. Visit the website at <https://aatcuniversity.com> for more information.

About R4 Ventures LLC.

R4 Ventures LLC is a technology company creating disruptive commercial and industrial cooling technologies with the goal of eliminating high energy consuming compressors typical in refrigeration-based systems and environmentally hazardous refrigerants as it uses water as its refrigerant. Its patented technologies provide cold water and/or cold air at temperatures close to temperatures generated by traditional mechanical refrigeration systems, such as chillers and central cooling plants serving building comfort cooling applications and light and heavy industry process cooling applications. R4V creates superior energy and environmental technologies and solutions for its licensees, global partners, customers and local, regional, national and global governments through engineering, design, research and development. www.r4ventures.biz.

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