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At the Kansas City National Security Campus, digital manufacturing has come to mean much more than computer-aided design and 3D printing. The new Advanced Manufacturing facility, unveiled in May, is one example of how the KCNSC is at the forefront of bringing innovative technologies to our national security mission. The flexible space is designed to support additive manufacturing technologies, including polymer, metal and special materials.

Construction for this approximately 12,000 square foot facility began in November and took about six months to complete. Equipment will begin moving in this summer and will be fully occupied by the end of September. It will immediately provide support to the W88 Life Extension Program by printing cushions.

This holistic approach has allowed for the successful insertion of new technologies into the nuclear weapons stockpile as well as creating more than 50,000 3D printed tools, saving taxpayers more than $100 million. Congratulations to the team who worked hard to complete this facility on schedule and budget.

May was a busy month for visitors to the Kansas City National Security Campus. Deputy Secretary of Energy Dan Brouillette visited the facility on May 3 to learn about our mission and meet with employees. During a lunch with early in career employees, Mr. Brouillette held a roundtable discussion to generate ideas for boosting employee retention.

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Honeywell hosts Advanced Manufacturing Workshop with MSIPP Universities

University of the District of Columbia and North Carolina A&T University, for the 2018 Minority Serving Institutions Partnership Program (MSIPP) workshop on Advanced Manufacturing funded by NNSA.

The principle goal of the MSIPP program is to establish a sustainable pipeline for minority students pursuing Science, Technology, Engineering and Mathematics degrees and careers. A second component of this program is to support the collaboration between Historically Black Colleges and Universities and NNSA’s sites in STEM disciplines bringing a heightened awareness of nationally important research. Since 2012, Honeywell has partnered with Oak Ridge National Labs and Y-12 to support the MSIPP Consortium for Advanced Manufacturing.

During the workshop, MSIPP university professors and students teamed with Honeywell subject matter experts to share their individual expertise and to increase their knowledge of technology development with a focus on Materials Analysis and Characterization for Additive Manufactured Products.

Eighteen MSIPP students submitted their research abstracts, and the top 14 were selected to present their research.

More than 35 university students and professors visited the Kansas City National Security Campus (KCNSC) this spring to collaborate and innovate. Honeywell hosted this group of diverse technical universities, such as University of the District of Columbia and North Carolina A&T University, for the 2018 Minority Serving Institutions Partnership Program (MSIPP) workshop on Advanced Manufacturing funded by NNSA.

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University students turn concepts into reality

Each year Honeywell sponsors senior design electrical, mechanical and materials engineering projects at several local universities. Honeywell engineers propose small design-based projects that are sent to the universities and selected by the students. The students spend 1-2 semesters designing and building prototypes with the guidance of Honeywell and their professors.

This year more than 50 projects were completed at schools including Missouri S&T, Kansas State University, University of Missouri, University of Missouri-Kansas City, Iowa State, University of New Mexico and North Carolina A&T. These projects included designing a vacuum compatible 2-axis rotating fixture, metal AM of a design team component, a gunshot detector, design of an energy harvesting device, and additive manufacturing of ceramics.

Nick Green, mechanical engineer, requested a “Hopper Handling Device” for a 3D printer that requires two operators to handle the hopper when removing it from the equipment. The hopper’s height from the ground and weight of 80 pounds made it a safety concern. Several schools selected this project but K-State came out on top with a robust design to make this a simple, one-person operation.
Eric Byer voted Volunteer of the Year for STEM passion

Mechanical Engineer Eric Byer was recognized for his STEM volunteer efforts by Grandview High School this spring. Eric is one of many volunteers from Honeywell working with Project Lead the Way and Robotics programs. He has logged hundreds of hours teaching students the design and mechanical skills which they use to create a robot. In addition he volunteers for other district activities such as the middle school IGNITE events and Meadowmere Science Nights. Congrats Eric, you are a STEM hero!

Small business flourishes with Honeywell coaching

Honeywell was awarded the DOE Small Business “Mentor of the Year” Award for helping a small Kansas-based machining and assembly vendor, Ultra-Tech Aerospace (UTA), with two aggressive goals – expand capabilities to include on-site welding and utilize LEAN/Six Sigma principles to improve capacity of the overall operations.

Honeywell welding experts coached UTA staff as they planned, designed, purchased, installed, hired, trained and launched a welding department from scratch. What started as a catch-all area for stored materials at UTA is now a 4-booth welding department staffed with 3 welders. The space is rapidly expanding due to an influx of new work. Since launching the department in June 2017, UTA has awarded 9 welding jobs valued at $1.1M (all Federal contracts).

Lean experts with broad industry experience, training and certification assisted UTA on their journey of becoming a LEAN machine and assembly shop.

Not only was the cycle time on the targeted family of parts reduced by 15 percent but the scrap percentage was reduced from 12 percent to 1.1 percent.

With Honeywell’s coaching, UTA has become a self-sufficient, LEAN enterprise with continuous improvement as a core cultural element.

Saving lives one pint at a time

With the simple act of donating blood, Quality Inspector Mark Martin has saved 90 lives. He has donated 28 pints in the past 30 years, including a pint at Honeywell’s quarterly blood drive last month. Every pint of blood is precious, keep up the good work Mark!
Scholarships set students on path to manufacturing careers

Honeywell is putting 20 recent high school graduates on the path to rewarding careers in manufacturing through the Honeywell Opportunity for Prosperity (HOPE) Scholarship program.

Now in its second year, the HOPE Scholarship program was extended to the Albuquerque area in a new partnership with Big Brothers Big Sisters of Central New Mexico. After a robust scholarship review process that included interviews with finalists, two students from the Albuquerque area were selected in addition to 18 Kansas City area students.

In addition to financial assistance, the students will be matched with a Honeywell mentor to help with career exploration. The goal of the HOPE Scholarship program is to build a pipeline of highly skilled workers for manufacturing positions at the KCNSC.

Last year, we awarded the first three HOPE Scholarships to students from Grandview High School. Dylan Hernandez, our first full-ride recipient, is joining Honeywell this summer as an intern. When he graduates next year, he is interested in pursuing a career in modeling and simulation.

“Thank you for choosing to do work that matters for our country.” That’s what nearly 250 middle and high school students said to their parents at our 2018 Take Your Child to Work Day event. The program began with a special American flag pinning ceremony as students recited the line and pinned their parents.

“This year’s event was all about family, country and technology with a passport that students had stamped with additively manufactured stamps, customized for 12 unique activities. The activities for scholars showcased our technologies, employee initiatives, and community and career opportunities through demonstrations about Additive and Advanced Manufacturing, Assembly and Electrical Fabrication, Augmented Reality, Inclusion, Liquid Nitrogen, Little Bits, Printing Droids, and Safety and Security.”

“We designed the MakerSpace to be the ultimate production studio. The new MakerSpace is a place for teens to explore their creativity, engage in STEM activities and learn about careers in advanced manufacturing while utilizing cutting-edge technology. The project was funded through Honeywell’s community program and features nearly $50,000 worth of technology, tools and supplies, including two 3D printers, a laser cutter, desktop CNC mill, a soldering station, electronic equipment, and a video production studio.

“We designed the MakerSpace to be the ultimate place for teens to gather to create, invent and learn,” said Ricciardelli. “We hope they will use the space to not only explore their creativity, but explore possible future careers based on the skills they develop in the lab.”

Honeywell volunteers spent more than 100 hours installing the equipment and training the teens on how to use the new technology. The new MakerSpace is a place for teens to explore their creativity, engage in STEM activities and learn about careers in advanced manufacturing while utilizing cutting-edge technology.

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“Take Your Child to Work Day allowed my daughters to see first-hand the several different career paths they could go in,” said Alesena Mabury, Staffing Specialist. “It was a mutual learning experience, and my children know that ideas can indeed become realities. As a result, they know that having confidence, communication skills, creativity, work ethic, and leadership skills in any career they choose, they will be successful.”

In a post-event survey, employees indicated the day successfully engaged their students and led to discussions between parents and their children about future careers at Honeywell and what it means to choose work that matters.

Run Forrest, Run!

Yep, that’s our President John Ricciardelli impersonating Forrest Gump for our annual Jog with JR. He even passed out chocolates at the end of the 5K. Proceeds from the race benefited Big Brothers Big Sisters of Greater KC, Kansas City FIRST Robotics and Veterans Community Project.

The teens also made their own tie-dyed t-shirts from the event, with help from Honeywell’s summer engineering interns.

Honeywell and Boys & Girls Clubs of Greater Kansas City reveal MakerSpace for teens

Honeywell has been all hands on deck for the last two months to create a MakerSpace for urban teens at the Boys & Girls Clubs of Greater Kansas City, Honeywell Federal Manufacturing & Technologies President John Ricciardelli and Chief Financial Officer Ryan Matthews helped cut the ribbon to officially reveal the new space.

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