CREATING THE FUTURE
Building the bridge to the future
with innovations and talent

BY TERRACON

O ur present is the future that was once envisioned by our ancestors. We can sometimes anticipate the future with some precision, other times important innovations have not been anticipated at all. The accuracy of predictions can vary as much as individual opinions, but we know for sure that what engineers do today directly impacts what actualities might become.

So which ideas and practices will be the ones that determine the direction of the future? Is the idea of zero carbon footprint the one that will bridge the gap into what’s ahead? The answer to the next generation.

We can confidently anticipate that tech solutions for exploration will continue to evolve and multiply. At Terracon, we are continually looking for new ways to solve the issues impacting current projects, while anticipating future challenges.

These innovations include pavement technology solutions and a new family of wind turbine foundations using earth-friendly design.

The use of electric buses to connect parking structures and the potential addition of a solar farm are just a few of their environmental initiatives. The Royals recently announced plans to relocate Kauffman Stadium, their home since 1973, into the downtown district of the City. While there is no timeline for this project, it is exciting to see the City’s economy, culture, and sparked apartment developments. One Light and Two Light. Initiative like Vision Zero will be a part of this process, although it is ultimately up to the engineers to design and incorporate the necessary changes.

As we move further into this technological age, we will see the influence of one another as well as the planet. Thankfully, the engineers are looking out for us by creating the future that we deserve.

Engineers have given us this opportunity through trial and error, critical thinking, and most importantly, applied imagination. Engineers may not be kicking out tractor beams and warp drives - yet. But what they are doing is finding new, innovative ways to use resources and solve problems for our society.

There are many potential outcomes when it comes to innovative design such as sustainable initiatives and environmental well-being, economic improvement or encouragement, or societal impacts like improved health into a powerplant design. As we move forward, engineers will be at the forefront providing design, presenting unique solutions, and serving as agents of progress.

This week serves as a reminder that the engineers are all around us, and that engineers do today directly impacts which innovations will lead tomorrow. At Terracon, we are continually looking for new ways to solve the issues impacting current projects, while anticipating future challenges.

Welcome to the Engineers Week special section

BY RHC

Engineers imagine the possible. With such new day, designing new systems and improving processes that directly impact our world. From street improvement to city skylines, they begin at the earliest stages of each project. The word project itself can reference just about anything. Is it a naturally occurring structure or object? What engineers are responsible for (just about anything)? What is its naturally occurring structure or object? Chances are, a few engineers were involved.

Now, I tell you nothing and everything about engineering all at once, what do you think? Pretty cool huh? Put simply, engineers take existing data and concepts to formulate new products and improve current ones. The projects of today's engineers allow us to travel the world and enter the minds of others through the design and engineering of a variety of products.

This same ideology is being applied in the Metro, through the development of a new terminal at the Kansas City International Airport. The U.S. Department of Energy’s Kansas City National Security Campus, managed by Honeywell FM&T, is dedicated to support our national security mission. We manufacture sophisticated mechanical, electronic, and engineered components and products to support our customers.

For several years, we’ve been investing in the next generation of engineers by supporting events and programs that engage young people early in the broad array of career possibilities that engineering can offer. For several years, we’ve been executing an annual event with nearly 200 Go Girls in the Kansas City area. This year, we will continue to explore the world of STEAM (Science, technology, engineering, arts, math). Every year Terracon’s internship program allows hundreds of promising university and college students for 24-week training with some of our brightest engineers.

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Black & Veatch create resilient and sustainable infrastructure that helps communities thrive and businesses grow.

Since 1910, we’ve provided critical infrastructure to clients in Kansas and Missouri, growing from a 12-person company started by University of Kansas graduates E.B. Black and N.T. Veatch, to a world leader in consulting, engineering and construction with more than 10,000 employee-owners.

We’re proud to call the Kansas City area our home, and we’re equally proud to support the development of aspiring and experienced engineers around the world. Learn more at bw.com/careers.

Building a World of Difference

Critical Infrastructure

Engineers make the invisible invaluable.

Black & Veatch engineers create resilient and sustainable infrastructure that helps communities thrive and businesses grow.
Delivering One Water solutions to address taste and odor issues for Maryville, MO

Ideas transform communities

We’re proud to celebrate Engineers Week with our employees and our community partners — people who make great things possible.

Celebrating Engineers Week February 18-25, 2023

BY HDR INC.

N utrient pollution, or cultural eutrophication, is a pervasive and challenging issue that significantly impacts rivers, lakes, and oceans across the country. According to data from the U.S. Environmental Protection Agency, approximately 20 percent of water quality impairments nationally are attributed to the impacts of nutrient pollution. Nutrient pollution fuels algal growth. These harmful algal blooms (HABs) lead to reduced dissolved oxygen, water clarity, and aesthetic quality that cause deleterious impacts to humans, recreation, and human health. In some cases, HABs are also associated with the production of toxins or taste and odor (T&O) compounds that create unique public health and treatment concerns for municipal utilities.

Over the past five years, the City of Maryville, MO (City), has experienced a significant increase in the magnitude and frequency of HABs in Mozingo Lake, which serves as their water treatment concerns for municipal treatment facilities. The City is now focused on planning for a new WTP. Currently, the City and HDR Engineering, Inc. (HDR), are performing a pilot-scale study to evaluate the performance of current T&O treatment processes and identify additional options that might be followed by biotreatment at the future facility. The primary objective of the pilot study is to evaluate the technology’s capability to reduce impacts from nutrient compounds, T&O, and taste, while maintaining finished water quality. The pilot plant is comprised of two equipment skids; one for each treatment process. The pilot is operated for more than eight hours per day by HDR engineer, Vito Palametti, who manages the equipment and oversees all data collection, laboratory coordination, and testing, and data analyses.

Near term, the City is controlling HABs through periodic algaeicide treatments in the lake while making critical water treatment plant (WTP) improvements that reduce T&O compounds and extend the plant’s useful life. For treatment of T&O at the existing treatment plant, a granular activated carbon (GAC) adsorber was placed into service on December 10, 2021. The GAC system produces immediate results and reduced influent geosilicon levels from 170 nanograms per liter (ng/L) to less than 5 ng/L, well below the odor threshold of 10 ng/L.

One Water solutions that will address nutrient pollution in the watershed and mitigate T&O effects through the treatment process. This One Water approach includes near-term and long-term actions.

In 2020, the City initiated a project to study the watershed, lake, and treatment process to identify holistic improvements that reduce T&O compounds and extend the plant’s useful life. For treatment of T&O at the existing treatment plant, a granular activated carbon (GAC) adsorber was placed into service on December 10, 2021. The GAC system produced immediate results and reduced influent geosilicon levels from 170 nanograms per liter (ng/L) to less than 5 ng/L, well below the odor threshold of 10 ng/L.

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Building career resiliency through K-12 STEM education

From curious student to empowered employee: Building career resiliency through K-12 STEM education

BY MARTHA MCCABE

When you drop into a FIRST robotics event, the first thing that captures your attention is the sky-high energy level. This holds true whether you’re at a FIRST LEGO League Explore event with K-2 graders sharing their adorable LEGO League Explore event with K-2nd graders or a FIRST Robotics Competition event with raucous cheers in an arena-like setting.

FIRST, which stands for “For Inspiration and Recognition of Science and Technology,” is a global STEM education program with a 23-year history in Kansas City. Its founder, Dean Kamen, set out to make science and engineering as exciting as sports. But if you peek under the hood of FIRST and other best-practice STEM programs, what students gain from participating goes well beyond the fun and the skills. The benefits go even beyond developing practical skills like design thinking and making proficiency. According to new research published by The DelBene Foundation, programs like FIRST can help young people get a jump start on their path to employment empowerment—that is, building careers with higher wages, better benefits and less risk of unemployment, no matter how the workforce is trending.

The Foundation initiated this research in the fall of 2020, surveying 50,000 people to assess patterns of employment, income and work conditions in America. The research revealed two keys to building a resilient career—career literacy and network strength.

Teaching career literacy includes having a vision for your career, self-awareness of your skills and interests, the capacity to communicate your professional value, robust job search skills and the capability to explore multiple career pathways. Network strength is the ability to build and maintain relationships with people spanning a diversity of industries, education levels and social experiences. According to the research, those who have high career literacy and network strength earn 55 percent more in annual salary and 26 percent more of them are currently employed, compared to people who are low in career literacy and network strength.

FIRST programs inherently build career literacy and network strength. In FIRST Lego League Challenge programs, students in grades 4-6 learn about different types of jobs as they interview experts for their research projects. They meet teams and coaches from other parts of the city during their competitions and learn how to convey what they’ve learned when they share their projects with a panel of judges. At the high school level, mentors and coaches work side-by-side with students throughout an intense robot building season. Students not only learn about career options from hearing about other people’s work, but they also interview experts for their research projects. They meet teams and coaches from other parts of the city during their competitions and learn how to convey what they’ve learned when they share their projects with a panel of judges. At the high school level, mentors and coaches work side-by-side with students throughout an intense robot building season.

Other STEM education programs also build in the involvement of expert professionals to inform and enhance student experiences. The KC STEM Alliance, in partnership with KC metro school districts and businesses, intentionally includes components of both career literacy and network strength-building in the programs it supports, which together reach more than 90,000 youth.

In addition to FIRST, these programs include Project Lead The Way senior capstone workshops to help high school seniors discover new ideas for engineering and biomed research; career exploration days that link students with businesses, workplaces and beyond; Teacher Mentor Days to help educators and industry connected, and more. Each of these programs needs volunteers from the engineering fields, with opportunities that take as little as a couple of hours to as long as multiple afternoons and evenings for an entire school year. Whether you say “yes” to a short-term or long-term commitment, you may just jump start a young person’s path to a resilient career in engineering and beyond.

To learn more about volunteering opportunities with the KC STEM Alliance, visit kwstemedinfo.org/volunteer.

Martha McCabe is Executive Director, KC STEM Alliance.

Complex KC Levees project will reduce flood risk for local infrastructure, historical neighborhoods and critical rail hub

BY HNTB

The phase II of the KC Levees project, now under construction, will improve the reliability and resiliency of 9 miles of levees and 7 miles of floodwalls along the Kansas River in metropolitan Kansas City. The project will reduce flood risk to the Argentine, Armadillo and Central Industrial Districts (CID) areas, which encompass historical neighborhoods, a nationally critical waterway and agriculture, and the nation’s largest railroad hub.

The phase II project covers 2 miles of levees built during major Kansas and Missouri River Basin events. During the flood of July 1951, waters overtopped the levees by 5 feet, displacing nearly 40,000 people and submerging rail yards and cattle stockyards. In response, the U.S. Army Corps of Engineers – Kansas City District (USACE) and Kaw Valley Drainage District of Wyandotte County (KVDD) raised the levee system 5 feet and added numerous closure structures – openings or gaps in the levee or floodwall that allow trains to pass through in non-flood conditions but can be closed during a flood as a barrier for homes, businesses and infrastructure below the levees. During the Great Flood of 1995, the levees performed as designed, but floodwaters entered within inches of the levee tops. Subsequent studies showed a need for USACE to raise the levees further to meet current design and safety criteria. The KC Levees project will raise levees and floodwalls to meet National Flood Insurance Program (NFIP) standards.

STEM Alliance.

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USACE’s design team was emboldened with HNTB’s establishing structure—parameters that empowered the teams to mitigate risk, enhance quality and move the project forward at an aggressive pace.

"USACE is scheduled to deliver the project in 2026—just seven years after the start of design," said Tom Rice, HNTB Project Manager. "The continuous flow of information among the teams supported risk-informed decision making, with all activities ensuring that life-safety considerations for the community were paramount.”

Designing and coordinating the 12-mile levee structure represented one of the most complex parts of the project. Three of the closure structures will be among the top four longest in the nation for USACE and, because the locations were so different and yet equally complex, each closure structure required analysis of multiple locations and foundation treatments.

"Ungain closure structure design, being closure structure design, unngain closure structure design, being closure structure design..."
Engineers, tomorrow, starting today

BY ASCE KC

Civil Engineers are the master builders of our future world. They guide growth through books, computer screens, pens, and hard hats. The civil engineering community is the profession meant to use their technical excellence, leadership, and innovation to create theFuture. The American Society of Civil Engineers (ASCE) is preparing future civil engineering leaders through its mission of promoting excellence in all areas of the engineering profession, particularly new initiatives focused on professional development, leadership, and the growth of future civil engineers. The Civil Engineering Section of ASCE is excited to share how ASCE is addressing the needs of the future.

Engineers need knowledge to meet the challenge of a changing world.

1. We must prepare the profession for what’s next.
2. We must build the civil engineer of the future.

Civil engineers need knowledge to meet the challenge of a changing world. Change is expected, but in the world of technology, management, and materials are developing at an exponential rate. We have never dealt with so much data and been expected to make sense of it. Civil engineers work is no longer simply designing and building, but includes data analytics, BIM management, and sustainable design. Civil engineering education teaches students a fundamental and complex problem-solving skills to fit into the world of health, safety, and welfare of all.

Engineers have become leaders in their field, and the Civil Engineering Body of Knowledge (BOK), in the edition of the BOK, civil engineers are seen as leaders in how to be engineers in responsible charge, more with the state. civil engineers are equipped with the right tool to be successful with the most impact.

The CEBOK is your roadmap to a successful career in civil engineering.

BY CHRISTOPHER GABRIEL

Engineers increasingly have become more interested in blossoming opportunities that complement their work from what it is and are now an integral part of the new industry. This demand has paved the way for the newly formed Subsection Program, making renewable energy and sustainable infrastructure resources more accessible. Evergreen, the Renewable Energy Impact Subsection Program (REISP) is one of the many successful Subsection Programs that have been established.

By placing a spotlight on the renewable energy industry, the REISP is working to provide a platform for engineers, not only for the engineers to gain knowledge, but also for the engineers to expand their professional network and engage with other professionals in the field. The REISP is an excellent opportunity for engineers to learn about the renewable energy industry, its challenges, and opportunities. The REISP is working to provide a platform for engineers to gain knowledge, expand their professional network, and engage with other professionals in the field. By working together, engineers can create a cleaner, more sustainable future.

Engineers, take the opportunity to be a part of the ever-growing renewable energy sector by getting involved with the REISP and making a positive impact on the future of the world.

Creating Opportunities and Showing Exemplary Commitment

BY EVERGREEN, A TD GROUP COMPANY

Hawthorn Solar Subscription Project

The Hawthorn Solar Subscription Project is one of the current commissioning of the Hawthorn solar project, Burns & McDonnell partners with Every to complete its successful career in Missouri.

The solar project uses a combination of renewable energy sources, including wind and solar energy, to power the site. The project comprises a series of solar panels and wind turbines, which are monitored and maintained to ensure maximum efficiency and performance. The project is designed to meet the electricity needs of local communities and businesses while reducing greenhouse gas emissions and promoting sustainable energy use.

Spurred by the growing demand for renewable energy solutions, the project has attracted the attention of local stakeholders, including government officials, community leaders, and corporate partners. The project is expected to significantly reduce the local community's carbon footprint while providing a reliable source of clean energy. The project is a testament to the growing importance of renewable energy solutions and the increasing investment in sustainable infrastructure projects.

The project is expected to provide a valuable learning opportunity for future engineers, demonstrating the importance of sustainable infrastructure solutions and the role of renewable energy in mitigating climate change. The project will serve as a model for future renewable energy projects, demonstrating the potential for renewable energy solutions to drive economic growth while promoting environmental stewardship.

The Hawthorn Solar Subscription Project is a model for future renewable energy projects, demonstrating the potential for renewable energy solutions to drive economic growth while promoting environmental stewardship. The project is expected to pave the way for future renewable energy projects, inspiring a new generation of engineers and professionals to take up the challenge of creating a sustainable future.

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Giving Back, Creating Opportunities and Showing Exemplary Commitment

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From architecture, engineering, procurement and construction positions to environmental, technical consulting and support roles, you can create amazing here in the metro and around the world.

Explore your next career chapter at burnsmcd.com.