RANKEN

TECHNICAL COLLEGE

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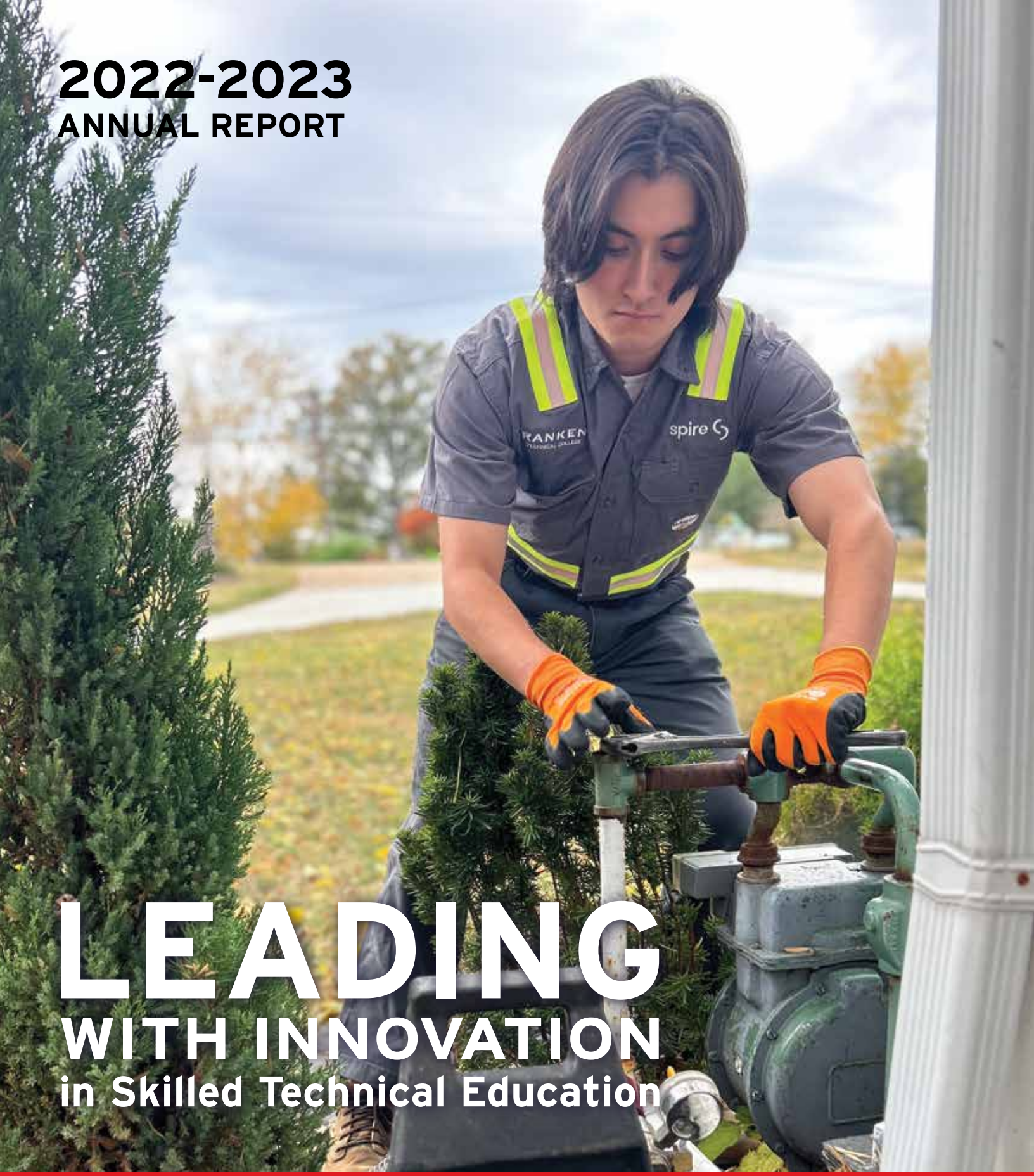
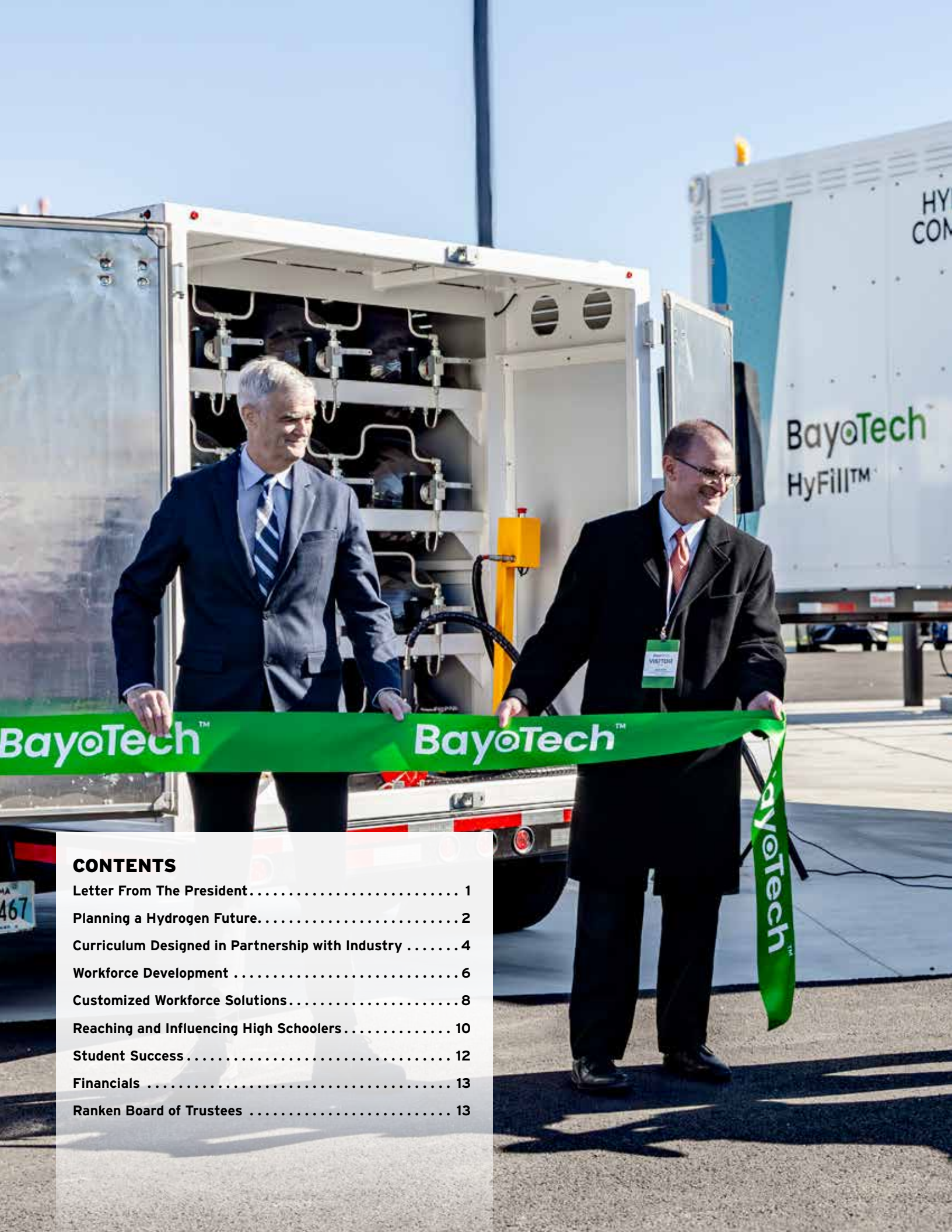
2022-2023
ANNUAL REPORT

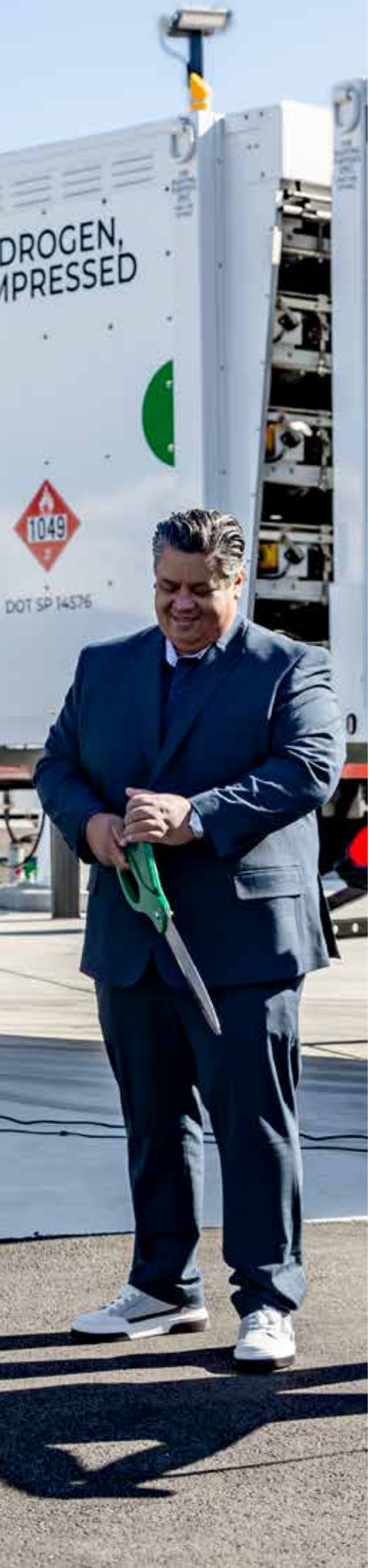


LEADING
WITH INNOVATION
in Skilled Technical Education

RANKEN
TECHNICAL COLLEGE



CONTENTS



Letter From The President

One of the great rewards of being a technical college is the continuous flow of opportunity, which then allows all students to take on new and exciting challenges. The very nature of being a technical college requires Ranken to be constantly innovating. While some people and companies may be reluctant to change, Ranken embraces change, and the opportunities it provides to grow and innovate.

Ranken is **the leader in technical education**, and partners with industry to support new technologies and applications. Earlier this month, Ranken participated in the opening of BayoTech's new hydrogen hub at our Wentzville location. BayoTech, the first producer of hydrogen energy in the St. Louis metropolitan area, will provide hydrogen fuel for industrial use in our region. Having the production hub at Ranken will provide additional real-world opportunities for Ranken students to have hands-on learning experiences that will lead to new skilled technical careers in the hydrogen-based energy field. Ranken also is working to establish hydrogen energy-based curriculum to provide students the skills they will need to service hydrogen-powered equipment.

We also are a **leader in customized workforce development programs** that help companies advance the technical skills of their employees. We are proud to partner with Toyota, General Motors, True Manufacturing, US Steel, Proctor and Gamble, and other companies who rely on Ranken to provide cutting edge technological training for their workforces.

As an educational leader, we continually expand opportunities for the next generation of students to receive a high-quality technical education. These opportunities are found across the state, from Perryville to Wentzville, Troy and St. Louis — and coming in January 2024, in our newest location in Ashland, Mo. Ranken also collaborates with local school districts to provide dual enrollment opportunities for high school students. Our innovative programs help attract bright and hardworking students who will go on to have successful and fulfilling careers. Our large job fairs are proof of our longstanding success in graduating workforce-ready students.

As a Ranken supporter, I invite you to continue to partner with us to meet the ever-changing technical needs of industry and provide exciting opportunities for our students.

Don Pohl
President

Ranken Board Chairman Mike Train, Ranken President Don Pohl, and BayoTech President & CEO Mo Vargas at the opening of BayoTech's BayoGaaS™ Hydrogen Hub at Ranken West-Wentzville in November 2023.

FOLLOW THE LEADER

Innovative, Groundbreaking Skilled Technical Curriculum. Industry Partnerships. Customized Workforce Training. Proven Results.

It's no secret why cutting-edge companies like BayoTech consistently turn to Ranken Technical College to find skilled technical workers who are job-ready to enter new and evolving career pathways.

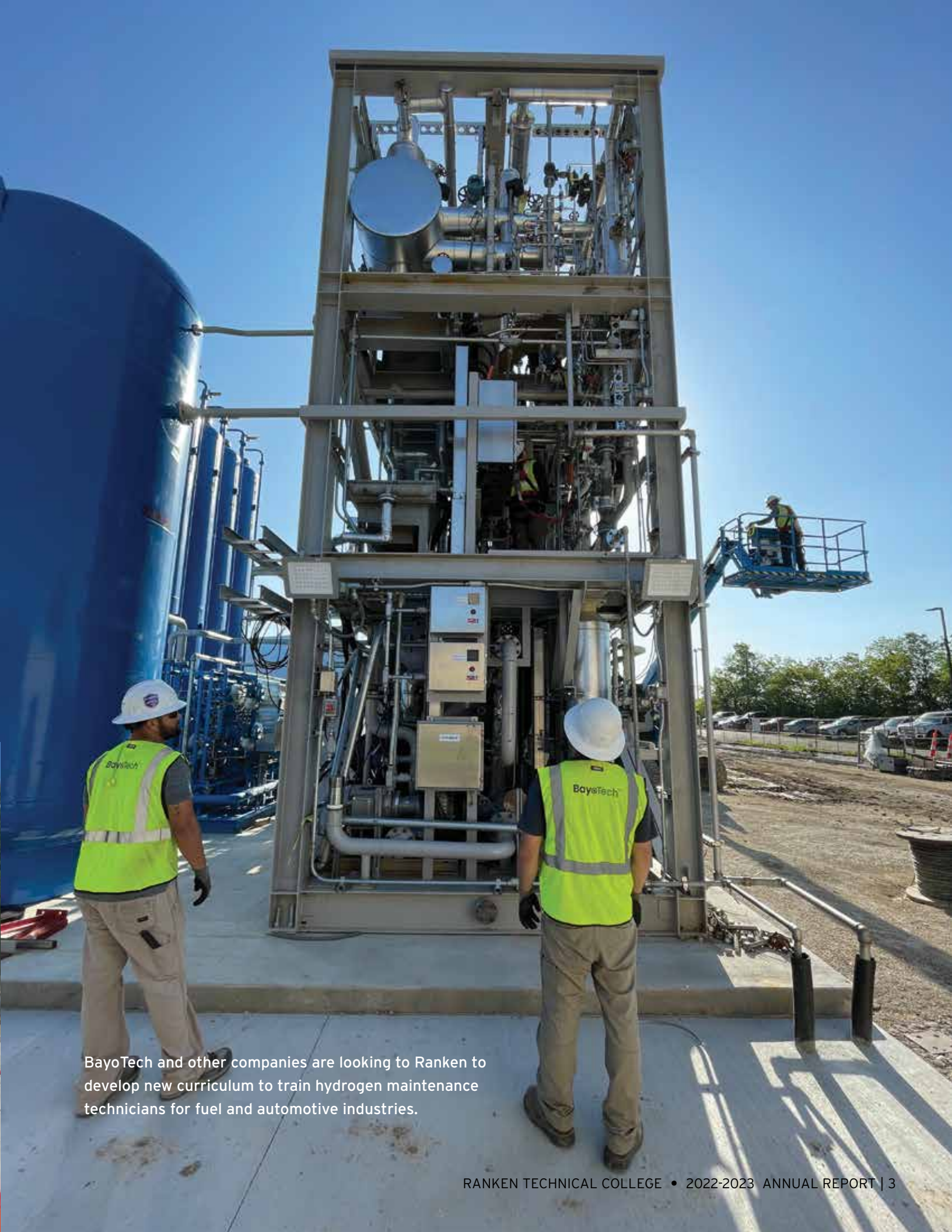
This fall, BayoTech opened its first BayoGaaS™ Hydrogen Hub at the Ranken West location in Wentzville, Mo. The company, based in New Mexico, turned to Ranken not only for its strategic Midwest location, but also for the College's ability to rapidly identify and then develop critical skilled technical education programs that result in highly trained workers for BayoTech's growing hydrogen supply and distribution needs.

"I firmly believe that the hydrogen economy is not just the future, it's the present," says Mo Vargas, Chief Executive Officer of BayoTech. "To ensure its success, we must invest in the people who will drive its growth. Partnering with Ranken Technical College for workforce development is a pivotal step in shaping a sustainable hydrogen future."

The hydrogen hub will produce more than 350 tons of low-carbon hydrogen annually for delivery to regional customers in the company's proprietary high-pressure, high-capacity bulk hydrogen transport trailers. Skilled workforce needs are many, including in control systems technology and hydrogen technician maintenance and repair. To meet that demand, Ranken is innovating on hydrogen-focused technical curriculum.

Ranken pinpoints industry needs and partners with companies to deliver the exact skilled technical training needed.

Says Vargas, "Together, we are empowering the next generation of skilled professionals, fostering innovation, and building a foundation that will power our world with clean energy for generations to come."

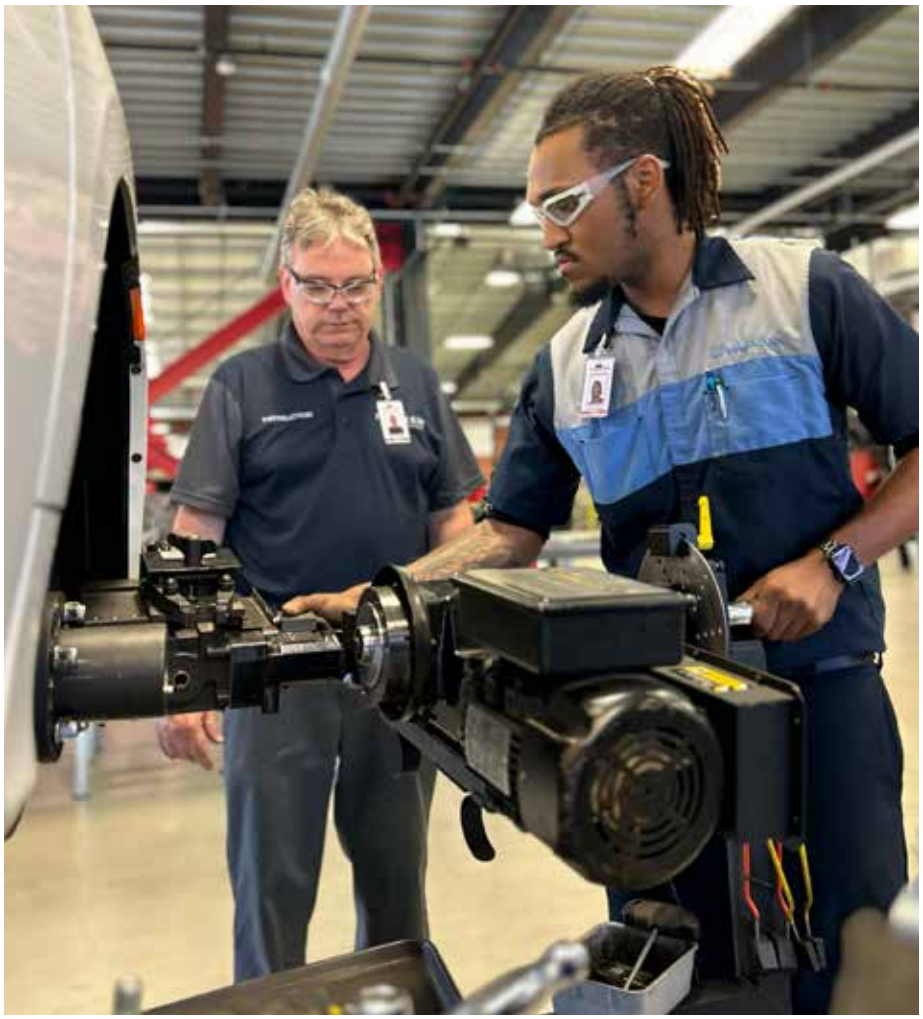


BayoTech and other companies are looking to Ranken to develop new curriculum to train hydrogen maintenance technicians for fuel and automotive industries.

A Leader in Innovative Curriculum Design

Companies look to Ranken because we have an established track record of tailoring curriculum to industry needs. Our success in designing and continually updating core curriculum has a cascading effect, with more and more companies seeking information about Ranken's hands-on, accredited programs for skilled technicians. American Honda Motor Co., Inc. is an example. As BayoTech launches its regional hydrogen distribution hub, American Honda also is interested in Ranken's ability to ramp up and train skilled technicians for the hydrogen workforce infrastructure planned across the country. Honda has leading edge expertise in hydrogen fuel cell technology and is promoting the development of hydrogen use as a primary back-up power source as well as for fuel cell electric vehicles (FCEVs).

Ranken is actively working with industry to embed hydrogen technician curriculum into several programs.



Resurfacing brake rotors with a lathe is part of the hands-on curriculum in Honda's Professional Automotive Career Technician (PACT) program. Overseeing the work of student Armante Wright, 19, is Ranken automotive instructor Gerard Motta.

There is a growing FCEV market in commercial transport and the technology is primed for wider passenger vehicle use.

"As companies like American Honda shift production from internal combustion engines toward zero emission battery electric and fuel cell vehicles, there must be more done to prepare our current technicians and incoming students with the knowledge and skills necessary to adapt to that change," notes David Perzynski, Assistant Manager, Hydrogen Solution Business for American Honda. "While hydrogen fuel cells are important enablers of decarbonization, only through the development of innovative curriculum and workforce development may these new technologies scale throughout the country."

Ranken already has a successful partnership with Honda as it is a long-time member of the Honda Professional Automotive Career Technician (PACT) Program. The College plans to embed hydrogen technical training into several programs and is looking for a variety of industry partners to help it design curriculum and help fund recruitment of outstanding and experienced faculty.

HVACR student Chad Bailey is one of the newest participants in Ranken/Spire's Cooperative Education partnership to train natural gas technicians.

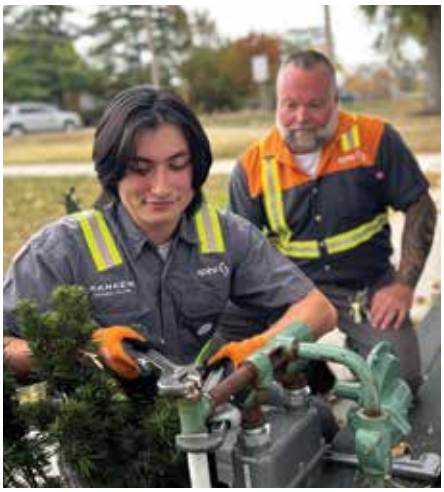
Demonstrated Success Spire, Inc.

Recent successful cooperative education partnerships include Spire, a natural gas company serving more than 1.7 million customers in three states. In 2020, Spire partnered with Ranken to extend curriculum in its Heating, Ventilation, Air Conditioning & Refrigeration (HVACR) program and offered paid internships to help train highly skilled technicians specifically for the natural gas industry. While students earn an associate degree, they also are eligible for specialized certification in natural gas maintenance and repair. Now in the fourth year of the partnership, Spire has hired multiple Ranken graduates for full-time service technician positions.

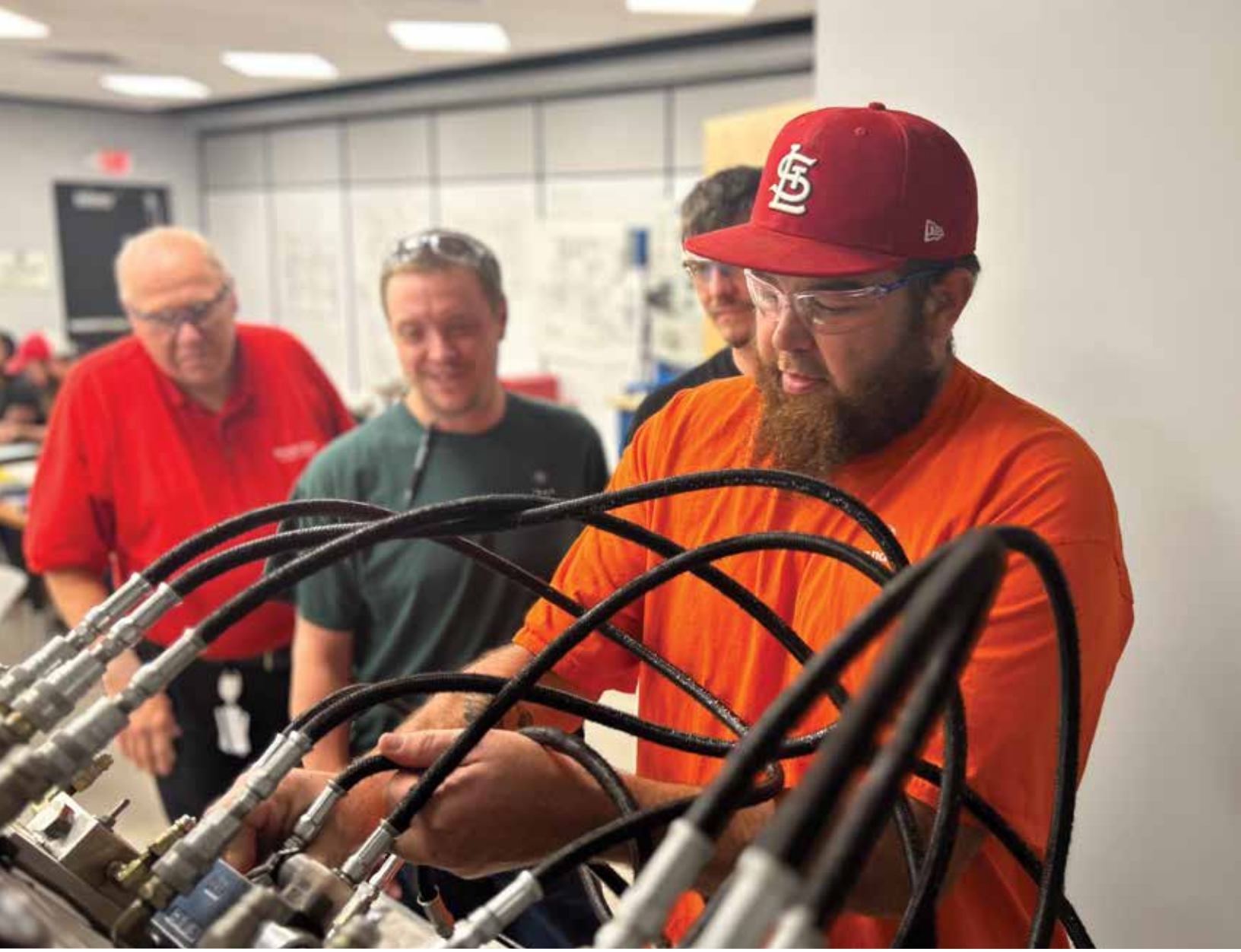
In 2023, Ranken created a similar embedded curriculum track in Applied Engineering Technology tailored to Boeing's Engineering Apprenticeship (BETA) Program.

"These are great jobs with industry-leading pay, benefits, and employee support," says Tim Goodson, retired Spire Vice President for Operations and a member of Ranken's Board of Trustees. "Real-world experience with employees who learn on the job alone is very time intensive, not as standardized, and results in up to three years of training before that employee is ready to work independently. With this technical degree combined with the co-op track, the new hire is ready to work independently within 2-3 months and is more successful."

"Spire is very fortunate to have a relationship with Ranken," says Stephen Mills, Spire Missouri president. "Together, we are providing students experience they can only get by being hands-on in the field. Having been part of the Cooperative Education Program at its inception, it's rewarding to see students from our first class thriving as members of the Spire team today. We look forward to continuing our partnership with Ranken and training the workforce of tomorrow."



Chad Bailey works to replace a home gas meter while his Spire mentor, Eric Jobe, provides onsite guidance and training.



Joel Hill (far left), a Ranken Workforce Development Specialist, introduces sequencing valve operations to the first three Toyota workers enrolled in the Maintenance Transition Program/Industrial Technology partnership at Ranken West-Troy. Toyota production team members (left to right) are Shaun Rogers, Carter Bray, and Brandon Schilling.

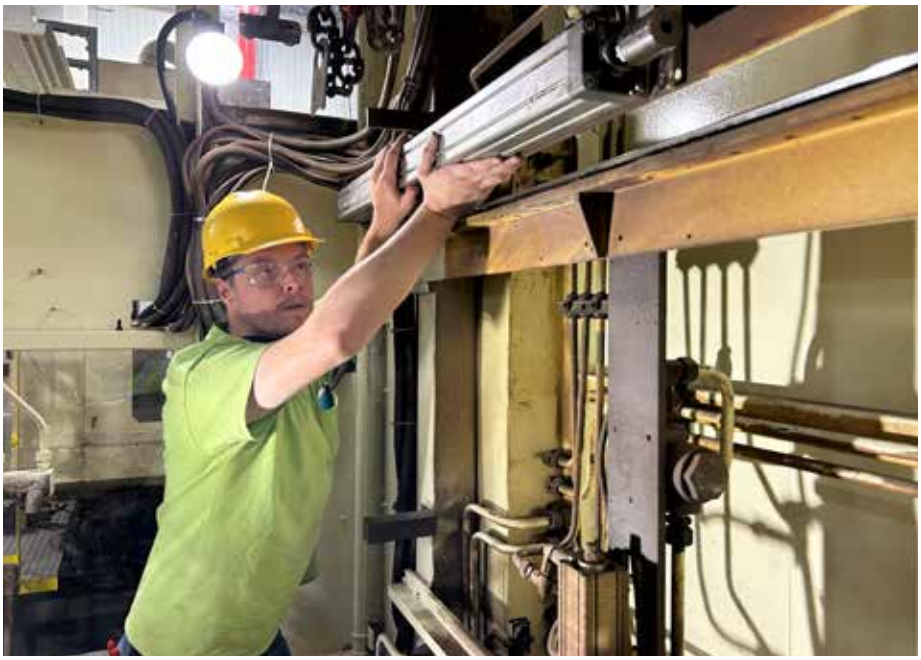
ADVANCING THE WORKFORCE
with Customized Training & Skills Development

Companies have to adapt to rapid technology changes, which results in a critical need for continuing workforce skills development. Ranken is at the forefront of customized training solutions to meet these demands.

Toyota Motor Manufacturing Missouri in Troy, Mo., can manufacture 3 million aluminum cylinder heads annually, which supplies every Toyota assembled in North America. It employs more than 1,000 workers. This year, Toyota Missouri turned to Ranken for its industrial technology programs to train skilled apprentices in the company's Maintenance Transition Program. The classes are taught by industry experts such as Workforce Development Specialist and Instructor Joel Hill, a former millwright with more than

"What we teach is directly hands-on and tailored for the companies that send their employees to us. That's why we see them turn to Ranken over and over for high quality, immediately applicable workforce skills development."

Joel Hill
Ranken Workforce Development Specialist

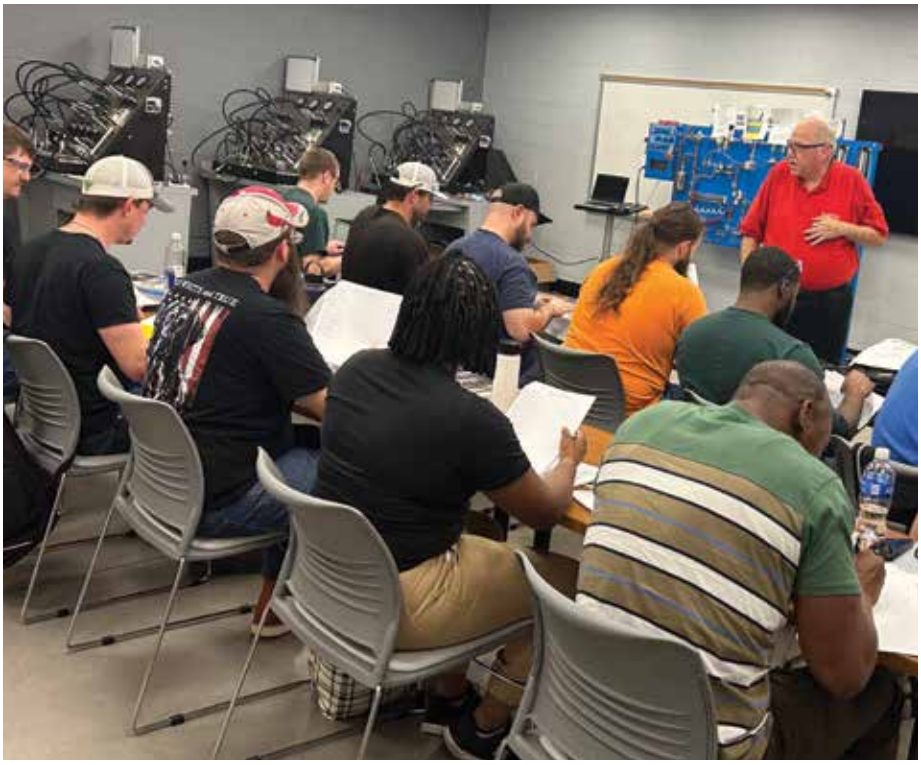


Shaun Rogers applies what he learns in Ranken's classroom to work at his job at Toyota Motor Manufacturing Missouri.

27 years of experience. Curriculum is specifically designed to meet workforce needs and evening classes are offered to accommodate workers' schedules.

In the classroom, Toyota's Production Team members learn about industrial hydraulics and sequencing valve systems. Pneumatic systems and motor controls maintenance training will follow over the course of the 24-month program. As their expertise grows, Toyota applies the training they've learned to work at the manufacturing plant. Successful employees earn a two-year associate degree from Ranken, certifications in industrial technology, and are eligible to move up the career ladder at Toyota.

"What we teach is directly hands-on and tailored for the companies that send their employees to us," says Hill. "That's why we see them turn to Ranken over and over for high quality, immediately applicable workforce skills development."



Employees from Toyota, General Motors and True Manufacturing are enrolled in the evening Industrial Technology program at Ranken West-Troy.

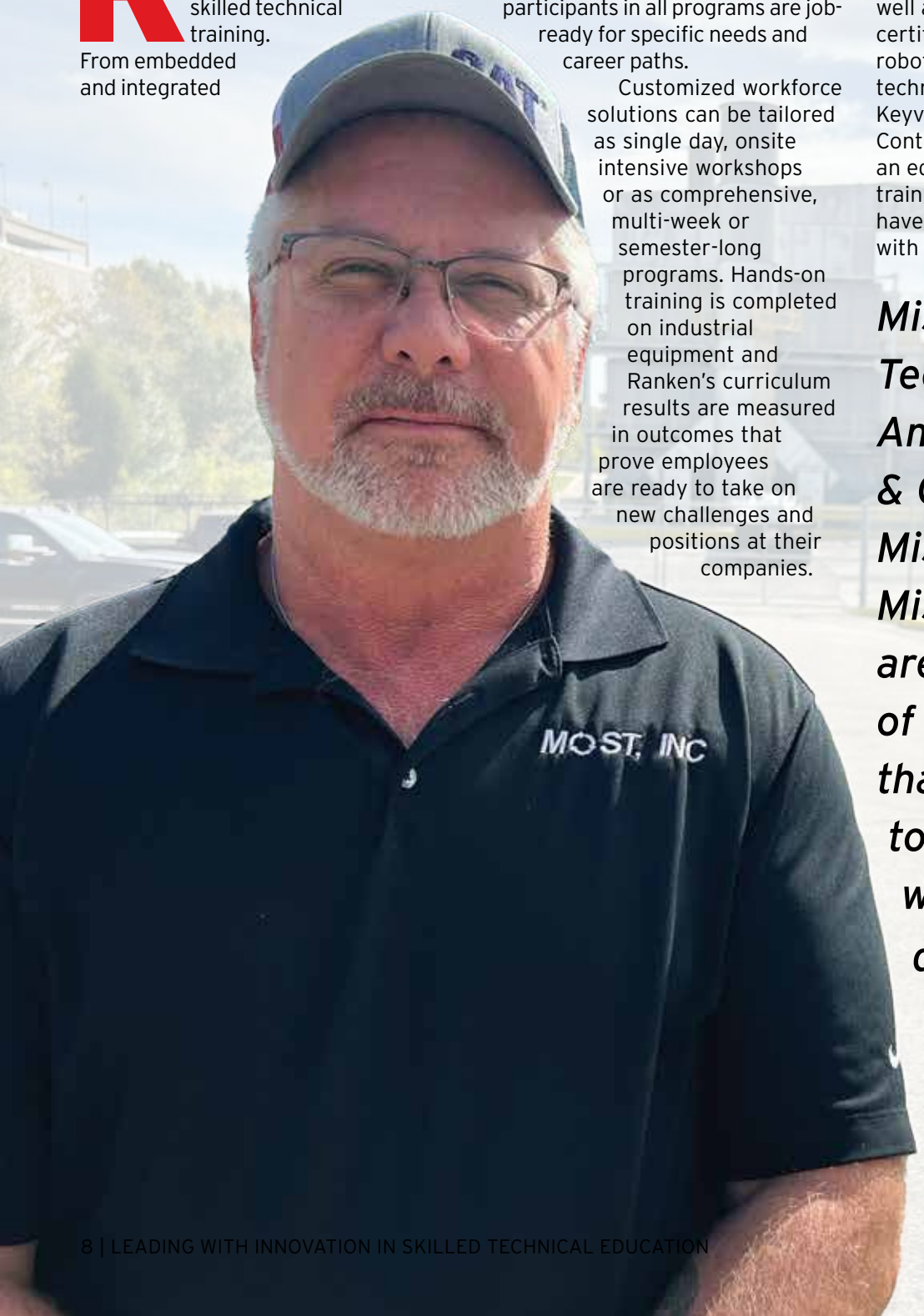
PROVEN LEADERSHIP
in Workforce Skills Development

Ranken is nationally recognized for its hands-on, integrated models of skilled technical training. From embedded and integrated apprenticeships to workforce training and novel industry partnerships, Ranken ensures that graduates and participants in all programs are job-ready for specific needs and career paths.

Customized workforce solutions can be tailored as single day, onsite intensive workshops or as comprehensive, multi-week or semester-long programs. Hands-on training is completed on industrial equipment and Ranken's curriculum results are measured in outcomes that prove employees are ready to take on new challenges and positions at their companies.

"We offer a wide variety of programs that can lead to the development of advanced skills as well as those for specific industry certifications, such as FANUC robotics certifications or industrial technology certifications," says Keyvan Gerami, Ranken's Dean of Continuing Education. "We have an education and skilled technical training model that works, and we have the expertise in partnering with industry to meet their needs."

Missouri Smelting Technology, Amazon, Proctor & Gamble, TG Missouri, and Mississippi Lime are among dozens of large companies that have turned to Ranken for workforce skills development.



Robert Bax
Maintenance Foreman
Missouri Smelting Technology

Proven Outcomes in Workforce Development

The effectiveness of Ranken's workforce development programs has led to broader applications. Missouri Smelting Technology is in the process of bringing Ranken's faculty and customized workforce training to its aluminum recycling and manufacturing facility in Jackson, Tenn. The company already has a successful workforce training partnership with Ranken for employees at its Troy, Mo., facility.

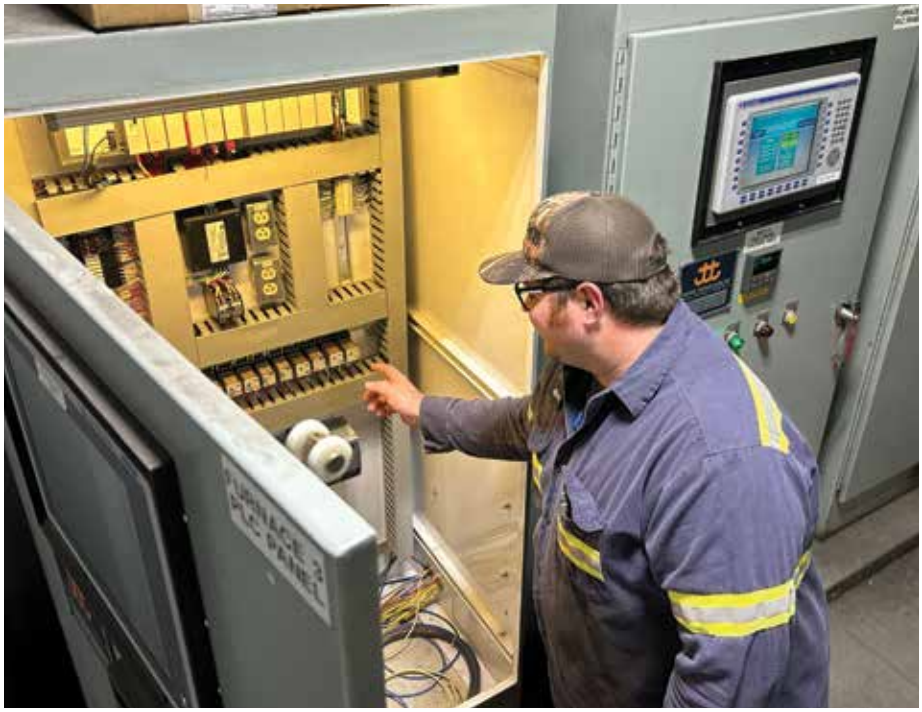
"Ranken has become an asset to our facility and worked with us from the start to develop training to match our needs," notes MOST's Maintenance Foreman Robert Bax. "The teachers worked with us to streamline the education to our specifications and used our parts and our equipment for demonstrations and training. This is an incredible benefit for our industrial mechanics to be able to train on the exact equipment we have in our plant."

MOST started with basic electrical training and then added more courses in control systems technology with Variable Frequency Drives (VFDs) and Program Logic Controllers (PLCs) skills development. It also added robotic training. Now in the works is the start-up of basic electrical courses in Tennessee along with welding and industrial hydraulics training at both facilities.

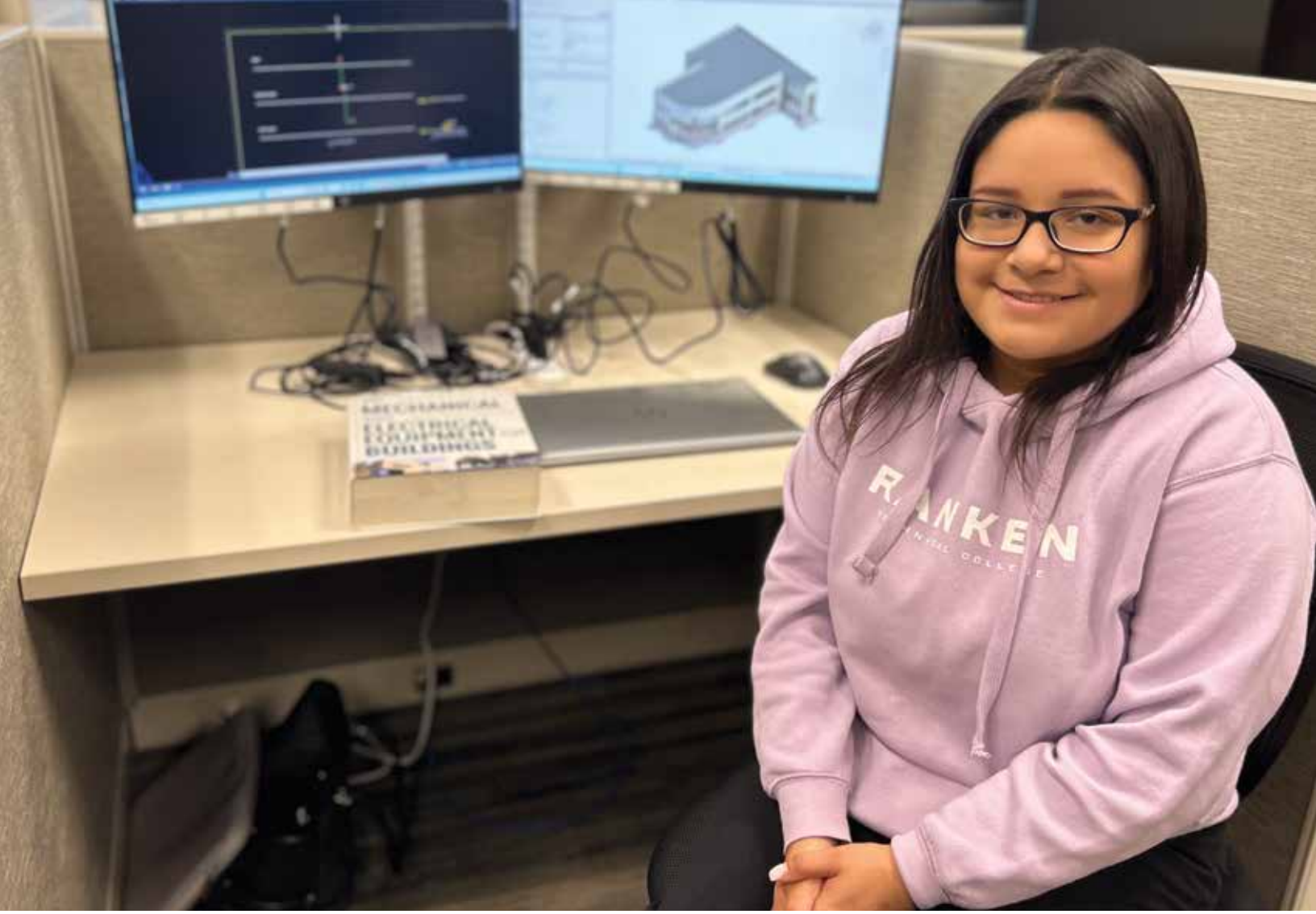
"I appreciated that, during the course, the instructor would cause issues that the students would have to locate and repair on the training equipment," says Bax. "He would lead them to think about the process, understand it, and how to come to a solution."

He adds, "With Ranken's assistance we are building a maintenance department truly capable of meeting our needs. I have used other training services in the past; none compare to the Ranken courses."

(Transfer of molten aluminum into a transport ladle.) Missouri Smelting Technology employs skilled workers to process and melt aluminum scrap to produce aluminum alloy products such as automotive parts.



Allen Hayden, Maintenance Coordinator, is one of many skilled workers at MOST who have had advanced skills training at Ranken.



Mariana Zamacona jumpstarted her career by enrolling in the Dual Enrollment Program at Ranken and now has an internship at CCI Networking as she works to complete her associate degree in Building Systems Engineering Technology.

LEADING THE INFLUENCERS

by Promoting Dual Enrollment in High Schools

Mariana Zamacona was a 17-year-old high school senior who could not envision her future path. Community college did not appeal to her, neither did a four-year college. "I was going around in a loop," she recalls, "I wanted more than a job, but I didn't know how to find my passion or get there."

Then she met Patrick Glynn, an admissions counselor at Ranken West's Wentzville facility. Glynn suggested Mariana explore the dual enrollment program at Ranken, which would allow her to attend high school classes in the morning while taking classes at Ranken in the afternoon. The program even offered transportation from her high school to Ranken.

Dual enrollment is an opportunity for high school students to jumpstart their college education. It's also a chance for Ranken to introduce teens to skilled technical career paths. Eligible students spend the last semester of their senior year taking courses at Ranken with no out-of-pocket expenses.

Mariana enrolled in the Building Systems Engineering Technology (BSET) program, based on her interest in construction. The program teaches students computer-aided drafting and 3D modeling skills to design mechanical, electrical, and plumbing

systems for construction projects. She liked the small class sizes at Ranken and the faculty members who checked on her often to see how she was balancing her schedules.

During her first semester, Mariana attended Ranken's fall job fair and approached a booth sponsored by CCI Networking, a premier managed service provider offering IT and technology solutions for businesses across the country.

"They knew who I was as soon as I said my name," she says. "My Ranken professor told them about me, and I got an internship. It was a little intimidating at my age, but I love learning and Ranken was preparing me for this."

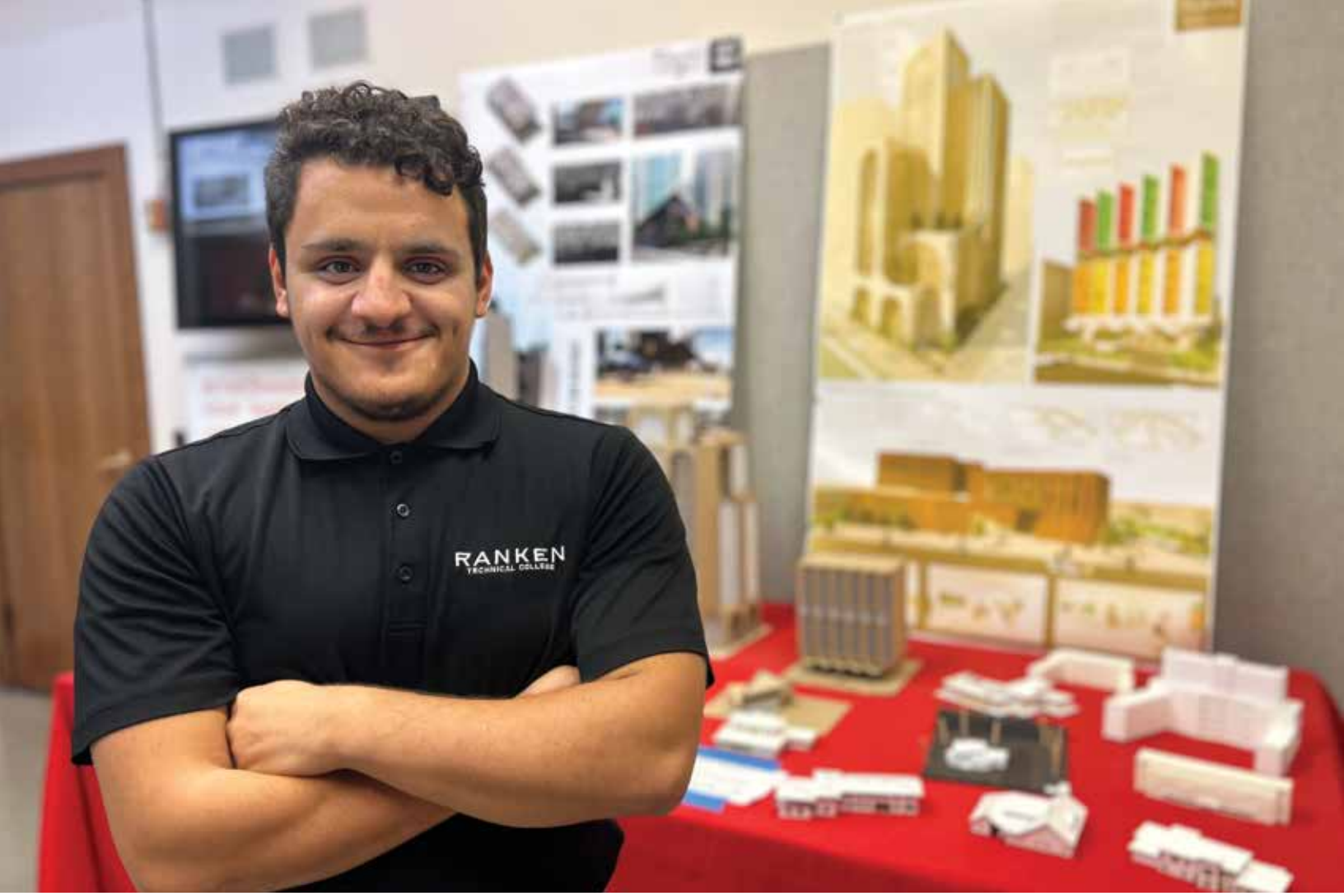
Mariana graduated high school in May 2023, and now attends Ranken full-time while continuing her internship at CCI where she has worked on various projects including one for Hobby Lobby. This paid internship helps Zamacona cover her tuition at Ranken, which is useful when you are the youngest of three siblings with college ambitions. "It was a little stressful finding a way for Mariana to go to college," admits Yolanda, Zamacona's mother. "Finding this program was a way to support Mariana and her dreams."

Ranken currently offers dual enrollment in 12 programs in partnership with Confluence Academy and the Lincoln County R-III School District, which is Ranken's newest participant.

"I want to go back to my high school and tell everyone about it," Mariana says. "The program has put me so far ahead of the game. It's mind-blowing how fast my future is expanding."

"Dual enrollment provides our students with an opportunity to engage in relevant and engaging education that puts them one step closer to their desired field of work. It also removes potential economic barriers by providing them with tuition assistance and a more direct path to the workforce. This partnership not only benefits our students but also strengthens our community by preparing a skilled workforce for the future."

Dr. Mark Penny
Superintendent, Lincoln County R-III School District



Ranken Students Are Job Ready for Success
Spotlight on Ibrahim Alabassi

Ibrahim Alabassi is in the last year of his academic journey with Ranken Technical College. He has gone from a creative kid looking for an outlet, to an accomplished student in our Architectural Technology Program who creates unique spaces in new buildings, historic buildings, and everywhere in between. He is a tradesman by skill, and a visionary who can see the opportunities in design. It is important to Ibrahim to create usable and sustainable workspaces that are also customizable. He is creating those spaces.

Ibrahim emigrated to the US when he was six years old, and life took him in unique directions. For example, he was ROTC, considered a career in pharmaceuticals, but nothing felt quite right. He was at the precipice of life-shaping decisions when he was introduced to Ranken Technical College. He is a creative person at heart and knew his keen interest in design and dogged determination to complete the work at hand gave him the confidence to begin classes at Ranken. His designs, insight, appreciation for new ideas and dedication to the longevity of his projects echoes Ranken Technical College's focus on the need for qualified workers who can step into hands-on situations with ease.

"The use of color in any room changes its dynamic," said Ibrahim. "Color changes the atmosphere."

Ibrahim is currently interning at HOK, a world-renowned architecture firm based in St. Louis. Ranken Technical College gave him the hands-on skills that businesses crave. He has the ability to walk into any shop and help, and that is what sets Ranken Technical College apart from the rest.

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STATEMENT OF ACTIVITIES

Revenues

Tuition, net	$22,404,657
Investment Income	$6,784,520
Contributions	$1,617,517
Auxiliary Income	$3,083,435
Other Income	$4,220,380
Total	**$38,110,509**

Expenditures

Instruction	$10,258,929
Academic Support	$1,148,246
Institutional Support & Student Services	$18,254,877
Fund Raising	$103,635
Operation of Maintenance of Plant	$4,661,520
Auxiliary Expenses	$2,823,884
Pension	($991,133)
Total Expenditures	**$36,259,958**