STEM FOCUS

MISSION MATTERS

2013-2014 ANNUAL REPORT

RANKEN
TECHNICAL COLLEGE

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ON THE COVER: Ranken President Stan Shoun congratulates Automotive Maintenance Technology graduate, James Chesser and his Golden Graduate, grandfather, Melvin J. Dudley, a 1964 Ranken HVACR graduate; McKena Ekeocha is all smiles after graduating with a degree in Fabrication and Welding Technology; Ranken graduate, Jamie Schneider receives the David Ranken, Jr. Award, an award given for high academic achievement, work ethic and leadership.

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LETTER FROM THE **PRESIDENT & CHAIRMAN**

RANKEN TECHNICAL COLLEGE *is a private, non-profit, degree-granting institution of higher learning whose* **PRIMARY** MISSION *is to provide the comprehensive education and training* **NECESSARY** TO PREPARE *students for employment and advancement in a variety of technical fields.*

For more than one hundred years, our fundamental mission has remained the same: to provide the best education and training possible so our students are ready for immediate employment in a wide range of technical fields.

What has changed is the number and mix of programs that we offer, the educational requirements that we have put into place, the training methods that we employ and the improvements (facilities and equipment) that we strive for in every area of the College.

In this year's Annual Report, we celebrate the first year of our Ranken Wentzville location. Interest and enrollment have far exceeded our expectations and we are pleased to announce that a major expansion is under way with new facilities, new programs and new partnerships with regional companies.

The report also showcases a new educational training method being employed in both Automotive and Advanced Manufacturing that cycles students through work-based internships and on-campus coursework. Prospective employers have given the cycle-based training high marks and students feel more prepared to enter the job market.

In the past four years, Ranken has been directly involved in efforts to draw more students into science, technology, engineering and math (STEM) fields and, thanks to funding from the National Science Foundation – the College has been at the forefront of developing innovative programs for teachers as well as middle school and high school youth. You will find a special STEM Report on page 13 highlighting our efforts in this area.

We wrap things up with a special section on women in technology and our efforts (along with the help of friends and contributors) to attract more women into technical careers.

With our mission clearly in focus, we hope to expand on these efforts and all of the initiatives that we have undertaken this past year.

Edward L. Monser,
Chairman of the Board

Stan Shoun,
President

RANKEN TECHNICAL COLLEGE *is a private, non-profit, degree-granting institution of higher learning*

INDEPENDENT. INNOVATIVE. MISSION DRIVEN.

Ranken instructor Ronald Vaughn, a Microsoft IT Academy Administrator, works with Charles Clark, an evening student in Ranken's new Microsoft Systems Administration certification program.

"Evening programs make it possible for me to work while trying to advance my career."
— Charles Clark

At Ranken Technical College, **MISSION** MATTERS. Since we opened our doors in 1909 serving 20 students, we have grown to become a nationally-accredited technical college dedicated to training and educating a skilled workforce to meet the needs of tomorrow's employers.

Starting with just five programs – Painting, Bricklaying, Steam Engineering, Carpentry, and Plumbing – we strategically expanded our diverse curriculum over the years, with outstanding results.

Our graduates are in high demand, now more than ever. In 2013, the number of companies participating in Ranken's Fall Job Fair was the highest ever and our Spring Job Fair topped even that. In May 2013, we awarded degrees and certificates to 892 graduates. Within a few short months of graduation, we saw 100% job placement for graduates in seven programs:

- AUTOMOTIVE COLLISION REPAIR TECHNOLOGY
- ARCHITECTURAL TECHNOLOGY
- CARPENTRY AND BUILDING CONSTRUCTION TECHNOLOGY
- ELECTRICAL SYSTEMS DESIGN TECHNOLOGY
- HVACR TECHNOLOGY
- PLUMBING TECHNOLOGY
- PRECISION MACHINING TECHNOLOGY

Job placement rates for our remaining programs top 90%.

We attribute our success to understanding and anticipating industry needs and to our flexibility in offering both day and evening courses for our students, which we have done since the founding of our institution. We've even expanded beyond our main campus (to Wentzville and Virginia) to bridge the distance for students to obtain hands-on training and valuable work internships through innovative industry partnerships.

At Ranken, with an unwavering dedication to our mission, everyone wins: our students, employers and the communities we serve.

RANKEN EVENING PROGRAMS = FLEXIBILITY

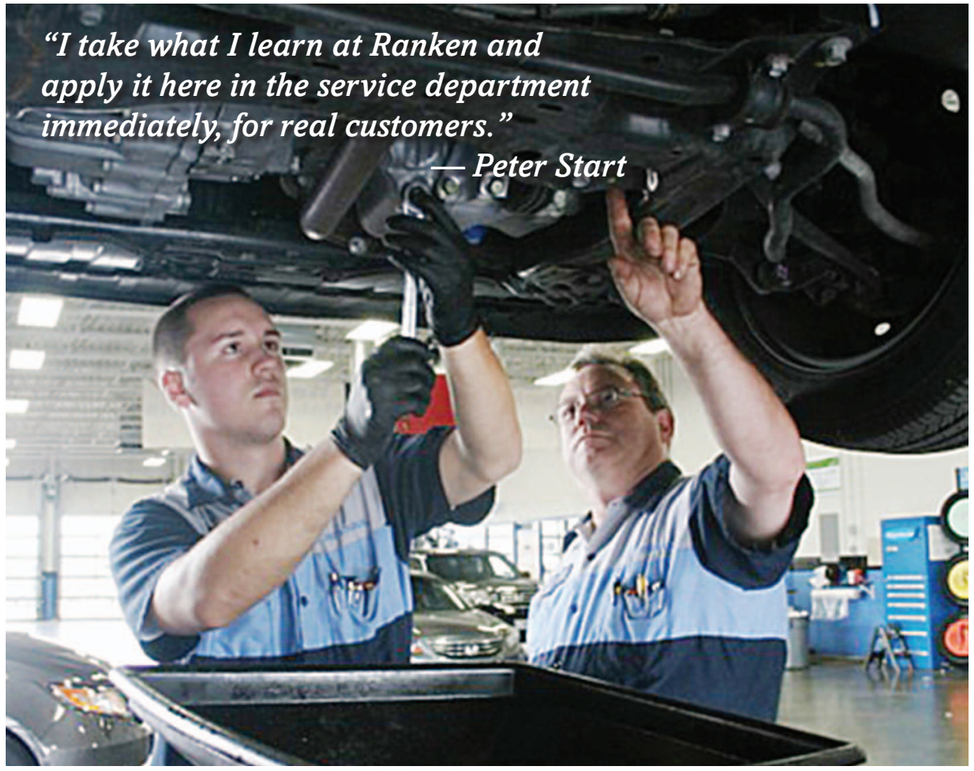
"Evening programs make it possible for me to work to help provide for my family while trying to advance my career," says Charles Clark, an IT Security Specialist with Charter Communications who enrolled in Ranken's newest evening course, the Microsoft Systems Administration certification program. It's one of 25 evening programs offered, making it possible for students to work full-time while pursuing degrees and certifications at night.

Clark, who has two children, says, "I'm already a Cisco Certified Network Professional through Ranken, but a lot of companies want an IT employee who knows both Cisco and Microsoft. By earning both certificates, I really open up my future job prospects. Ranken's also the only technical school I've found in the region that embeds certification tests directly into its curriculum. We come out fully certified, ready to go."

From 5 programs in 1909, Ranken today offers:
2 Bachelor's Degree Programs, 18 Associate's Degree Programs, 23 Certificate Programs

Whose **PRIMARY** MISSION *is to provide the comprehensive education and training...*

Madison Brumfield trains at Ranken and then at a local Honda dealership



Honda PACT student, Peter Start, with Frank Leta Honda shop foreman Jerry Motta, an '83 Ranken graduate

NEW TRAINING PARADIGM

Automotive Division Ramps Up Hands-On, Real Work Experiences

Ranken's Automotive Program is on a fast track. As of this year, the College is home to three accredited automotive maintenance training programs with a 4th starting next year:

- TOYOTA/LEXUS TECHNICAL EDUCATION NETWORK (T-TEN)
- HONDA/ACURA PROFESSIONAL AUTOMOTIVE CAREER TRAINING PROGRAM (PACT)
- GENERAL MOTORS BUICK/CADILLAC/GMC/ CHEVROLET AUTOMOTIVE SERVICE EDUCATION PROGRAM (ASEP)
- FORD/LINCOLN AUTOMOTIVE STUDENT SERVICE EDUCATION TRAINING PROGRAM

"This makes us a one-stop resource for a multi-brand automotive dealer or owner/principal to obtain certified technicians," says Dan Kania, Chair of the Automotive Division. "It's a credit to our rigorous coursework, outstanding faculty, modern facilities and our strong work ethic component that we consistently achieve these accreditations."

Last year, Ranken became one of only three colleges in the country accredited to train factory-certified automotive maintenance specialists for two import lines – Toyota/Lexus and Honda/Acura – in one comprehensive Automotive Import Technology Program.

Key to Ranken's success in securing these agreements is its new training paradigm where students are paired and then alternate between campus-based instruction and paid internships in area service departments affiliated with the Missouri Auto Dealers Association.

By working in paired cycles, a dealership experiences no workforce fluctuations. The new cycle format debuted with Toyota and Honda in 2013. No other technical school uses paired cycles like Ranken. "Whoever designed this way of cycling is a genius," says Jeff Lind, Service Manager for Frank Leta Honda.

NEW TRAINING PARADIGM BENEFITS

STUDENTS
- Immediate job
- Paid while they learn
- Lessons reinforced with on-the-job experience

AUTO DEALERS
- Ready access to workforce
- Rapid acclimation to dealer's organizational culture
- Students graduate with brand certifications

"Whoever designed this way of cycling is a genius."

Jeff Lind, Frank Leta Honda's Service Manager

ATTENTION TO DETAIL

Zachary Zagarri, 21, is prepping a 1968 Chevrolet Corvette for a full body restoration. "This is so sweet to be working on a car like this," he says with a smile.

Zagarri, who is in the process of obtaining his associate's degree in Automotive Collision Repair, is one of several students paid to restore the '68 Vette as part of Ranken's innovative Automotive Restoration Microenterprise, which began in spring 2013. Also being restored – and almost complete – is a 1974 International Harvester Scout II.

Ranken has several on-campus business partnerships (microenterprises) that hire students for skilled jobs even while they are still in school.

A unique component of the Automotive Restoration Microenterprise is that three departments are involved:

- AUTOMOTIVE COLLISION REPAIR – BODY RESTORATION
- HIGH PERFORMANCE RACING TECHNOLOGY* – DRIVE TRAIN AND CHASSIS COMPONENTS
- CARPENTRY – FABRICATION OF VEHICLE SUPPORT DOLLY

*FOR CHEVROLET CORVETTE

Ranken also has specialized courses that focus on maintenance and repair of electric and hybrid vehicles as well as high performance vehicles such as race cars.

Architectural rendering of Ranken Wentzville's planned $5.4 million expansion.

RANKEN WENTZVILLE

AN OVERWHELMING SUCCESS

EXPANSION

At Ranken Wentzville, which opened in 2013, the first year of operation is characterized as an overwhelming success.

"We projected a first year enrollment of 50 students at Wentzville," says Stan Shoun, President of Ranken. "We enrolled 130 students, almost tripling our projections."

With so much success, Ranken Wentzville is planning a $5.4 million expansion. Architectural renderings created this year show the campus growing over the next several years to four times its current size. The expansion will result in more room for the Automotive Maintenance program and a new Diesel Technology program, slated to start in 2015. It also will free up more space for Ranken's popular Advanced Manufacturing Technology program, offered exclusively at the Wentzville location.

"We have regional Industry Advisory Boards for all programs, which has enabled us to tailor the curriculum directly to meet the needs of prospective employers," says Jeremy Sutton, Site Director of Ranken Wentzville. "We also hosted a highly successful Industry Breakfast that drew more than 50 representatives from 38 companies in the region. It's been an outstanding first year."

In both the Automotive Maintenance and Advanced Manufacturing Technology programs, students have received job offers prior to graduation, thanks in large part to Ranken's internship programs, which offer students real-world training in local companies embedded directly into their coursework. Information technology courses at Wentzville also are in high demand.

"Wentzville's success is proof that we made the right decision to put an educational facility in close proximity to employers looking for a skilled workforce," says Shoun. "We're proud of the success to date and eager to expand our relationship with new students and more companies."

- **TRIPLED ENROLLMENT EXPECTATIONS**
- **NEW FACULTY ADDED**
- **13 INDUSTRY PARTNERSHIPS & INTERNSHIP PROGRAMS**
- **$5.4 MILLION EXPANSION PLANNED**
- **NEW IN 2015 - DIESEL TECHNOLOGY PROGRAM!**

Spotlight on

ADVANCED MANUFACTURING

"I'm still in school but have a guaranteed job when I graduate in December," says Kameron Moses, 19, a student in Ranken's Advanced Manufacturing Technology program.

Moses, who is learning to operate computer numerical control (CNC) systems, has interned as a CNC operator at Component Bar Products, and is being paid to work full-time even before graduation.

"Our students are required to have a minimum of 160 hours per semester in internships before they graduate," says Gary Young, Ranken's Department Chair of Precision Machining and Advanced Manufacturing Technology. "Over four cycles, they can sample different work environments or pursue an ongoing relationship with a particular company."

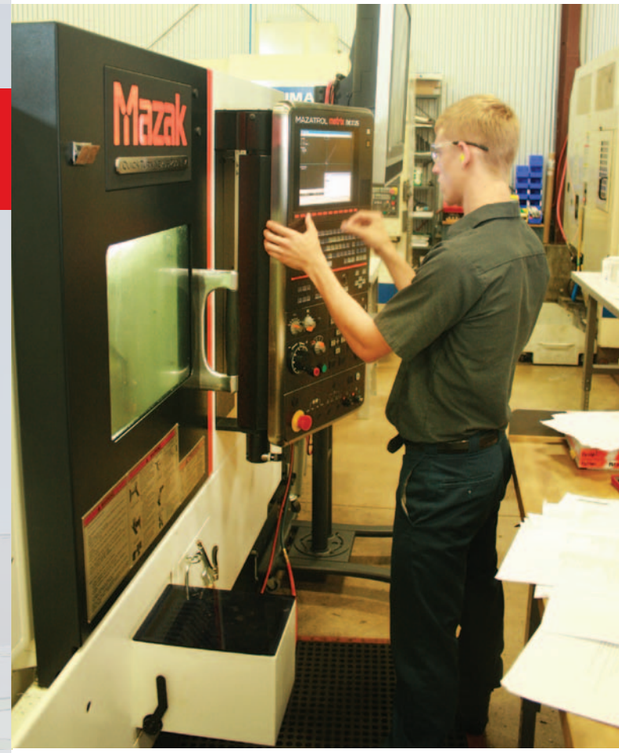
Robert Wattler, 19, is now interning as a CNC operator with Homeyer Precision Manufacturing in Marthasville, MO. "I'm one step ahead of other job competitors," he says. "Here, everyone works together to get you on the right path to the career you want to have."

The company agrees. "We view the partnership with Ranken as a valuable training tool for our next generation of skilled technical associates," says Herb Homeyer, President of Homeyer Precision Manufacturing. "The classroom instruction at Ranken's facility and the hands-on training at Homeyer is a 'win-win' approach."

Industry partnerships also have led to several donations of advanced manufacturing equipment, so far totaling more than $150,000. By teaching students on the latest technology they will use in the workplace, the donations benefit both students and the companies involved.

Says Young, "My goal now is to double the number of Advanced Manufacturing students to meet the demand for these skilled workers."

Robert Wattler works with Homeyer Supervisor Eric Wilson



Kameron Moses, age 19 works on the Mazak system at Ranken Wentzville. He has been offered a job at Component Bar, where he is currently an intern.

ADVANCED MANUFACTURING 2013-2014 COOPERATIVE **LEARNING PARTNERSHIPS**

Component Bar Products – O'Fallon, Mo.
Ehrhardt Tool & Machine – Granite City, Il.
Endoscopy Development Company – St. Louis
Hydromat* – Maryland Heights
Homeyer Precision Manufacturing* – Marthasville
Hunter Engineering – St. Louis
Mark Andy – Chesterfield
Mid-Western, LLC – Wentzville
Patterson Mold & Tool – St. Charles
Schwoeppe Machine & Tool – Marthasville
Seyer Industries – St. Peters
Tab Tooling – Moscow Mills
Tech Manufacturing* – Wright City

** Companies that donated Advanced Manufacturing technology to Ranken Wentzville.*

"The classroom instruction at Ranken's facility and the hands on training at Homeyer is a 'win-win' approach."
— Herb Homeyer

RANKEN EDUCATIONAL NOTES

NATIONAL AWARD – Ranken Technical College is one of three national winners of the 2013 Career Pathways Partnership Excellence Award presented by the National Career Pathways Network (NCPN). NCPN is a leading organization for educators, employers and others involved in advancing career technical education. Ranken was acknowledged for its innovative education/industry partnerships and work-based learning opportunities in the automotive industry.

ULTIMATE COLLISION EDUCATION MAKEOVER GRANT – Ranken was one of eight programs in the nation to receive a new Pro Spot PR-2000 Inverter Resistance Spot Welder through the Collision Repair Education Foundation's 2013 Ultimate Collision Education Makeover school grant. The foundation works to obtain donations from various industries, such as Pro Spot, to support collision repair education and training.

CONTROL SYSTEMS TECHNOLOGY PROGRAM RECEIVES EMERSON DONATION – Thanks to a generous $125,000 in-kind donation by Emerson, Ranken's Control Systems Technology Program has added advanced new equipment including guided wave radars, flow meters, field communicators, sensors and transmitters. Since 1973, Emerson has donated more than $1.8 million in equipment to Ranken's Carpentry, Industrial Technology, Control Systems, Electrical Automation and HVACR programs.

NEW SPACE, NEW EQUIPMENT IN ARCHITECTURAL TECHNOLOGY – With the Missouri Economic Research & Information Center (MERIC) naming architecture as one of the fastest growing industries in the state, Ranken's Architectural Technology Program has added a new computerized laser cutter to enhance both the quality and accuracy of scale models built by students. Renovated classroom space also improves collaborative work opportunities as students learn Computer-Aided Design and Building Information Modeling skills (CAD-BIM).

NEW LOCATION FOR JM&A CALL CENTER – Following the renovation of the Rodenheiser automotive building, the JM Family Enterprises, Inc. Call Center moved to the new facility from the lower level of the Cook Building. JM&A serves as a microenterprise on campus, providing paid jobs for Ranken students. The Center, which handles automobile warranty information and claim processing, has been on campus since 2009.

PRECISION MACHINING TECHNOLOGY DOUBLES CLASSES – PMT doubled the number of classes in 2013 to accommodate increased enrollment and employer demand. The program also added several CNC mills and manual lathes along with a new 3D printer as part of its Solidworks program, enabling students to have more hands-on learning time with the latest technologies.

NEW IT COURSES – Ranken's Information Technology program has new courses focused on the latest IT specialties – Cloud Computing and Big Data. The advanced curriculum covers Network Virtualization with VMware and NetApp Data Storage. In addition, with the skyrocketing use of mobile devices, the Internet and Web-Based Technology degree track now teaches HTML5 Frameworks that produce a responsive web design for mobile websites.

WELDING EXPANSION – The Fabrication and Welding Technology Department underwent major expansion to accommodate the installation of new equipment. Ten Miller welding machines were added – five for shielded metal arc (Stick) and tungsten inert gas (Tig) welding and five dedicated to metal inert gas (Mig) welding processes. The Department also added eight new welding booths, bringing the total number of individual welding work stations available to students to 38 stations.

MAJOR RENOVATION AND EXPANSION OF STUDENT SUCCESS CENTER – Ranken's new 6,500-square-foot Student Success Center debuted in 2013 after a major renovation combined both the library and the former Student Achievement Center. The Center provides a wide variety of academic support services and resources, including individual and group tutoring as well as testing services. In 2013, the Center logged 12,247 student visits.

TRAINING

NECESSARY TO PREPARE *students for employment and advancement in a variety of technical fields*

WORK AND LEARN ON CAMPUS

There is no better way to prepare students for employment than to have them working in real jobs while they are in school. For the past five years, Ranken Technical College has promoted the establishment of innovative college-business partnerships that have led to multiple microenterprises springing up on campus.

In line with Ranken's mission to prepare students for employment and advancement, these microenterprises are actively managed by both Ranken faculty and the companies involved. They cover a wide range of industries, offer students paid jobs that could lead to full-time careers, and either are embedded into Ranken's curriculum or are work opportunities outside of the classroom.

IN 2013-2014, RANKEN ADDED THREE NEW MICROENTERPRISES:

- **AUTOMOTIVE RESTORATION MICROENTERPRISE** – Started in 2013, this microenterprise focuses on independent auto and truck restoration.
- **HVACR MICROENTERPRISE** – New in 2013, this partnership with Emerson Climate Technologies' Flow Controls Division tests refrigeration and air conditioning systems, water-cooled units, cooling towers, timers and heaters.
- **CONTROL SYSTEMS TECHNOLOGY MICROENTERPRISE** – Just under way in summer 2014 with CTW Fresh, this innovative venture focuses on controlled environment agriculture, which is the use, maintenance, and oversight of semi-automated hydroponic container farms.

Also new this past year was a fourth company added to the Precision Machining Microenterprise. This venture, which began in 2011 with Hunter Engineering, expanded in 2012 to include Ehrhardt Tool & Machine, and Triad Manufacturing. In 2014, SCF Services came on board, with students machining parts for steering mechanisms.

"bioMerieux, one of our first microenterprises, renewed its two-year Strategic Supply Agreement with us this past year," says Vince Holtmann, faculty Project Manager for Ranken's Education and Manufacturing Cooperatives. "More microenterprises are in the development stages. It's a popular initiative for both students and businesses."

"More microenterprises are in the development stages. It's a popular initiative for both students and businesses."

MICROENTERPRISES	COMPANY	YEAR STARTED	# OF STUDENTS SINCE INCEPTION
Control Systems Technology	CTW Fresh	2014	2
Heating Ventilation Air Conditioning & Refrigeration	Emerson	2013	7
Automotive Restoration		2013	11
Carpentry	CBE	2012	14
Precision Machining & Advanced Manufacturing	Hunter Engineering, Ehrhardt Tool & Machine, Triad Manufacturing, SCF Services	2011	53
Electrical Technology, Industrial Technology & Information Technology	bioMerieux	2010	51
Automotive Maintenance Technology	JM&A Group	2009	101

IN DEMAND

RECORD NUMBER OF COMPANIES AT RANKEN JOB FAIRS

In 2013-2014, Ranken Technical College had two of its most successful job fairs ever. The number of companies participating keeps growing because employers are recognizing both the skills and work ethic instilled in Ranken graduates.

SPRING 2014 JOB FAIR — **181** COMPANIES
FALL 2013 JOB FAIR — **162** COMPANIES

Last year, the College also held industry-specific job fairs in Wentzville for automotive and IT students and on the main campus for Advanced Manufacturing students. The push to get students in front of prospective employers is a key strategy to help students prepare for their job search while learning about the types of jobs available upon graduation.

"With such a large volume of companies wanting to participate in job fairs and in our online jobs database, students are finding jobs much faster," says Janie Summers, Ranken's Career Services Director. "The evidence is in the numbers."

Within five weeks of the May 2014 graduation, 76% of Ranken day students and 84% of evening students had jobs.

Tech Electronics is one company that has participated in Ranken's job fairs for years.

"We find Ranken to be a great partner for locating qualified, skilled, and trained graduates," says Michelle Pozzo, Tech's Organizational Support Supervisor.

Last fall, student Omar Brown aggressively worked the Ranken Job Fair, introducing himself to many prospective employers. "I am looking to get on with a company that will provide me with a career path versus just a job," he said at the time.

He succeeded. Brown, a dual-degree graduate this year in both Control Systems Technology and Electrical Automation Technology, was offered a job prior to graduation with Phillips 66 as a Technical Operator. He started work in August.

"I'm very excited about how fast this came about," says Brown. "I was serious about looking for a great career and Ranken helped me to achieve my goal."

NECESSARY TO PREPARE

ADVANCED DEGREES OFFER OPPORTUNITIES

"I want to open a window of opportunity. With this degree, I think I have unlimited options for myself now."

— Darius Vilcinskas

Darius Vilcinskas is widening his career options with a bachelor's degree in Applied Management from Ranken.

RANKEN'S **BACHELOR'S DEGREE** PROGRAMS

- ARCHITECTURAL TECHNOLOGY
- APPLIED MANAGEMENT
- APPLIED MANAGEMENT-ACCELERATED OPTION

Darius Vilcinskas wants to further his career. With an associate's degree in Industrial Technology from Ranken, Vilcinskas worked his way up to Lead Maintenance Technician at American Pulverizer in St. Louis. He returned to campus last year to earn a bachelor's degree in Applied Management (BSAM).

"You need that piece of paper to push forward with the experience you have," Vilcinskas explains.

Ranken has two bachelor's degree programs to compliment its associate's and certificate degree programs. One, the bachelor's degree in Applied Management has two options – a traditional evening program and an accelerated option, where students can earn both an associate's and a bachelor's degree in just three years.

At 26 years old, Vilcinskas already has six years on the job at American Pulverizer. Now, he wants to advance further in the manufacturing industry thanks to his education, training, and the two degrees he earned from Ranken.

"My main goal is to not limit myself," says Vilcinskas. "I want to open a window of opportunity. With this degree, I think I have unlimited options for myself now."

STEMFOCUS

Educate to Innovate

THE NATIONAL IMPERATIVE IS CLEAR
We need more skilled workers and students entering the STEM fields – science, technology, engineering and math.

IN THIS SPECIAL REPORT
Ranken Technical College highlights its efforts to promote interest and enrollment in STEM programs.

WITH HELP FROM THE NATIONAL SCIENCE FOUNDATION
Ranken is focused on the national priority – **Educate to Innovate** in the STEM fields.

educate to innovate

THE STEM IMPERATIVE

Since 2010, Ranken Technical College has been the recipient of almost $1.9 million in grants from the National Science Foundation to fund the development of programs that draw youngsters into STEM careers. The grants are part of a national initiative – **EDUCATE TO INNOVATE** – that also has a goal of developing 100,000+ STEM teachers nationwide.

Why the push? The U.S. Department of Education notes that demand for STEM jobs is rising annually, yet only 16 percent of high school seniors are interested in a STEM career.

Ranken wants to up the percentage. Over the past several years, it has created a series of programs designed to encourage students to consider STEM careers.

"It's an amazing feeling to work really hard and have it pay off like this."

STEM-PATHWAY PROGRAMS:

- **High School Internships** - For high school students accepted into Ranken, this program provides an opportunity for summer campus employment while students get used to college life prior to their first semester.
  Ranken has had 22 high school summer interns since the program began in 2012.

- **Work-Study Partnerships** - These partnerships enable students to dive into actual paid work experiences that are integrated into Ranken's curriculum.
  In 2013-2014, 179 students participated in work-study partnerships in Automotive, Carpentry, HVACR, Information Technology, and Plumbing.

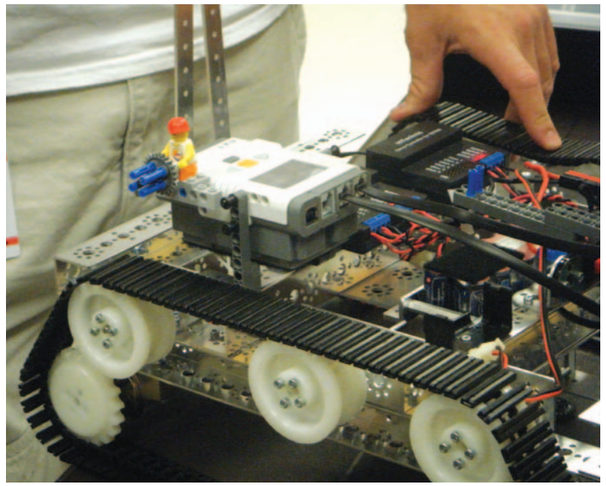
- **Summer Adventure Academies** - For middle school and high school students, these fun summer camps introduce kids to STEM-related topics and career options.
  From 2010-2014, 1,015 students participated in Summer Adventure Academies.

- **STEM Academies for Educators** - For teachers in grades 6-12, these programs offer networking opportunities, resources, and curriculum enhancements focused on STEM topics.
  238 teachers have participated in STEM academies since the program began in 2012.

- **Dual Enrollment** - Offers qualified students the opportunity to enroll in Ranken during their final semester of high school.
  In 2014, two students graduated from this program, which began in 2012. Twenty more are on track for graduation.

Bridgett Wings was one of the first three students to complete Ranken's Dual Enrollment program, graduating with a degree in Electrical Systems Design Technology in 2012. Now employed by Sargent & Lundy in Chicago, she was promoted to Designer 1 just this summer.

"If you're motivated, Dual Enrollment is the way to go to get an early start." — Bridgett Wings



"FIRST LEGO is a good challenge and it makes you think."

Ranken also sponsors competitions and multiple teams for

- **FIRST LEGO** (grades 4-8), **FIRST Tech Challenge** (grades 7-12) and **FIRST ROBOTICS** (grades 9-12) In 2013-2014, Ranken doubled the number of teams it sponsored, from 8 teams to 16 teams with 157 kids participating.

- **SkillsUSA –** Ranken hosted the East District Championship on its campus and its students have consistently advanced to state and national competitions, garnering multiple medals. This year:

  50 Ranken students participated in SkillsUSA East-District Championship
  42 advanced to State Championship
  32 Medals at State for First, Second and Third Place, including **12 Gold**
  12 advanced to National SkillsUSA Competition
  5 Top 10 National Winners, including **1 Gold**

Paul Kelley, a precision machining student at Ranken, brought home a First Place Gold Medal in the 2014 National SkillsUSA Competition in CNC Milling. Kelley is now working as a Tool Room Machinist at Production Castings in Fenton, Mo.

"SkillsUSA is a great opportunity to test your skills against your peers and competitors from all around the country." — Paul Kelley







educate to innovate

Exciting Students

SUMMER ADVENTURE ACADEMIES

2010	2011	2012	2013	2014
87 students	154	252	255	267

"It was fun making new things every day."


"I liked being creative."

Science and technology is FUN! That's the message received by both students and their parents after another round of Ranken's Summer Adventure Academies. Established in 2010 to encourage interest in STEM careers, the summer camps are week-long, highly interactive, hands-on camps.

In 2013, students from 127 schools participated in 19 camps, ranging from robotics, web design and criminal justice, to NASCAR engineering, welding, video game design, and health science technologies. For kids who came to Ranken, science became "cool."

What do parents think? Surveys show that after talking with their children, parents give Ranken high marks:

- *The overall quality of the camp was high.*
- *The instructor was an effective teacher and enthusiastic about lessons.*
- *My child learned a new skill and technical knowledge of a STEM-related occupation.*
- *The camp influenced my child's decision to pursue STEM-related subjects beyond high school.*

Developing Teachers

STEM ACADEMIES FOR EDUCATORS

"I have many great resources with which to return to my classroom."

For the third year in a row, Ranken opened its doors this summer to a growing number of middle and high school teachers, immersing them in various courses related to STEM.

The goal is to provide them with innovative curriculum ideas and share resources for increasing the interest and discussions of science, technology, engineering, and math in their classrooms.

"I enjoyed having the hands-on experiences and learning something new."

The interest is high. From two workshops offered in 2012, Ranken now has five courses geared toward teachers.

2012	2013	2014
45 teachers	121	72

Teacher STEM workshops offered to date

- Advanced Technology
- Green Homes
- Renewable Fuels
- Engineering in the Classroom
- I-Car Collision

In 2014, due to the success of STEM program efforts, Ranken's Advanced Technological Education (ATE) grant from the National Science Foundation was approved for a year extension. The three-year, $881,984 grant was awarded in 2011. Says Barbara Bragg, Ranken's STEM Pathways Development Coordinator,

"There is a critical need to maintain upward momentum and excite both teachers and students about STEM careers. The jobs are in demand, the salaries are good, and many degrees and certifications for skilled trades can be earned in just two years."

SUPPORT **& MENTORSHIP**
BRIDGING THE GENDER GAP

Jamie Schneider, a dual-degree graduate in HVACR and Major Appliance Technology, is the first woman inducted into the St. Louis Sheet Metal Workers Union 36 in residential service.

Kristen Marten (right) is a student in Kevin Webb's automotive maintenance course who benefits from the Women's Economic Stability Partnership program.

Only one out of four employees in the technology workforce in the United States is female. To close the gender gap, there has been a major push in this country to draw women into technology careers.

At Ranken, we're part of this effort. We recognize that recruiting and supporting women requires strong commitment and coordination among educators as well as women's organizations.

We start in our Summer Adventure Academies. To boost awareness of the wide variety of technical careers available, our summer programs are open to all students in grades 6-12. In 2013-2014, Ranken also offered several girls-only summer academy programs.

To draw women into Ranken, we've partnered with several organizations – such as the Monticello College Foundation and the YWCA Metro St. Louis Women's Economic Stability Partnership (WESP) – that help provide financial assistance and scholarship support to females.

WESP has worked with Ranken for the past seven years. The program is dedicated to helping low-income, single mothers pursue careers in fields where women traditionally are underrepresented.

"Non-traditional careers for women are those in which females comprise 25 percent or less of the workforce," says Genevieve Friedmann, WESP life coach and case manager. "STEM careers certainly fall into that category, so our partnering with Ranken is an excellent fit."

Over a period of three-to-five years, WESP provides intensive case management services to nine women as they train for their professions, attain jobs and achieve economic stability. Their studies at Ranken and other institutions are supplemented by workshops on financial literacy, networking, stress management and job retention. As part of the program, WESP participants also receive financial stipends to help with childcare, transportation, food, housing, and medical care.

"It's a degree I can take wherever I go. I can make a good living and I can pass on my skills to my son."

Friedmann visited several Home Depots, Lowes, Jiffy Lubes and auto repair shops to recruit candidates. This year, four Ranken students are participating in the WESP program, including 22-year-old Kristen Martin.

"It's a degree I can take wherever I go," says Martin. "I can make a good living and I can pass on my skills to my son. After tons of research, I chose Ranken for their in-depth education and reputation."

Martin was the only female in her first three classes but says she never felt out of place.

"You see other female students and faculty in the halls and you smile at one another," she says. "You know they support you and you support them."

"Our participants tell us the environment at Ranken is very welcoming to female students," says Friedmann, "They feel all doors are open to them if they care to knock."

HELPING YOUNG **WOMEN ACHIEVE**
THE MONTICELLO COLLEGE FOUNDATION

Linda Nevlin (3rd from left) laughs with Monticello College Foundation scholarship recipients (L to R) Dawn Yaeger, Alma Skouby, Kelly Ralston, Madison Richter, and Shelby King.

Since 2008, the Monticello College Foundation has awarded **$70,000** to female Ranken students.

Alma Skouby, 18, from Holt Summit, MO, is in her first semester in the Fabrication and Welding Technology program at Ranken. Shelby King, 19, from Paducah, KY, is in her third semester in automotive maintenance. Both are among several women at Ranken who received scholarships from the Monticello College Foundation (MCF), an organization dedicated to furthering women's education. All of the recipients say that without the scholarship, they wouldn't be able to attend college.

"We like to promote women in fields that have been predominately male because the opportunity is so great for women to contribute and grow."

– Linda Nevlin, Executive Director of the Foundation.

"I wouldn't have been able to come without it," admits Skouby. "My family doesn't have much money, so this helps a lot."

The Godfrey, Illinois-based foundation awards more than half a million dollars annually to female students across the country pursuing a wide spectrum of studies, including choreography, environmental science, archeology and social services. In 2014, Ranken was the only technical college to receive MCF scholarship dollars for its female students.

"We like to promote women in fields that have been predominately male because the opportunity is so great for women to contribute and grow," says Linda Nevlin, executive director of the foundation. "Female Ranken students continue to impress us with their desire to achieve."

Since 2008, the foundation has granted four, $2,500 scholarships annually to Ranken students.

"Receiving that scholarship definitely made me want to come here," says student Madison Richter, who came to Ranken from Aviston, IL, to study architecture technology.

Nevlin, who meets with scholarship recipients each year, says she finds the Ranken students more than capable of making a contribution. The foundation also tries to impress on female students the idea of paying it forward. Not only must recipients maintain a certain grade point average to retain the scholarship, they also must serve as ambassadors for Ranken to help attract other women into STEM fields.

"We hope that when the scholarship recipients from Ranken are in a position to give back, they will do so in order to allow another young woman pursuing a STEM career to realize her dreams," Nevlin says.

STATEMENT OF ACTIVITIES
FISCAL YEAR 2013-2014

REVENUES

Tuition: $22,454,807

Investment Income: $12,417,895

Contributions: $2,042,677

Auxiliary Income: $3,897,105

Other Income: $2,278,557

TOTAL REVENUE: $43,091,041

EXPENDITURES

Instruction: $7,092,549

Academic Support: $1,160,147

Institutional Support & Student Services: $14,109,685

Fundraising: $404,063

Operation of Maintenance of Plant: $3,240,546

Auxiliary Expenses $1,742,406

TOTAL EXPENDITURES: $27,749,396

BY THE NUMBERS

Total Enrollment: 2,097

Students Receiving Financial Aid: 90%

Operations Covered By Tuition: 65%

Average Unmet Need: $2,500

Scholarships Awarded: $810,098

Total Financial Aid: $1,530,292

Total Gifts & Donations: $2,042,677

Size of Endowment: $63,957,954

Total Number of Donors: 698

RANKEN BOARD OF TRUSTEES
NEW MEMBERS

MICHAEL P. McMILLAN
President & Chief Executive Officer, Urban League of Metropolitan St. Louis

Michael McMillan is a passionate advocate of education and has worked tirelessly to create self-sufficiency in others. In addition to his role at the Urban League, McMillan is the co-founder and Chairman of the Board of the St. Louis Community Empowerment Foundation and has endowed scholarships for high-achieving disadvantaged students at four institutions in the region.

STEVEN L. MOSS
Senior Vice President of New Business Development, Nooter/Eriksen, Inc.

A mechanical engineer, Steven Moss has held varying leadership roles with CIC Group and its subsidiary, Nooter Corporation, since 1976. He has played a key role in the globalization of Nooter/Eriksen's supplier base and currently is responsible for exploration and evaluation of new products. A member of the Advisory Board for the Student Design and Experiential Learning Center at Missouri University of Science and Technology, Moss firmly believes in mentoring students.

WILLIAM P. SCHOTT III
Vice President, Global Manufacturing Hussmann Corporation

William Schott has more than 27 years of experience in advanced metal fabrication technologies and in leadership positions related to multi-plant operations, building and facility expansions. Prior to joining Hussman in 2001, Schott worked for GE Aircraft for 17 years, where he rose from a college work-study student to become Plant Facility Leader in Wilmington, NC.

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Vice President for Education

John E. Wood
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Anheuser-Busch InBev

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TECHNICAL COLLEGE

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