

Career Educational Advisory Council (CEAC)

A committee of the Workforce Development Board for Michigan Works! Southwest

Monday, March 20, 2023, from 1:00 – 3:00 PM
At Upjohn Institute, 300 S. Westnedge Ave, Kalamazoo, MI 49007

In-person attendance is encouraged - Virtual Meeting Link:

<https://us02web.zoom.us/j/86198485819?pwd=eGlkTXdmcHNXSnZqYWwhOVZZUFI4Zz09>

Meeting ID: 861 9848 5819 **Passcode:** 450547

You can also dial in using your phone. (Toll Free): 833-548-0282; 877-853-5257; 888-475-4499; 833-548-0276

AGENDA

- | | |
|--|-----------------------------------|
| I. Call to Order / Introductions [5 min] | Tim Staffen, Chair |
| II. Meeting Minutes (<i>vote required</i>) [2 min] (Exhibit) | |
| A. CEAC December 5, 2022 Meeting Minutes | |
| III. Career and Technical Education Reports [20 min] (Exhibits) | |
| A. Perkins-Region 20 Summary (Kalamazoo and St. Joseph ISDs) | Cameron Buck |
| B. Perkins-Region 21 Summary (Barry, Branch and Calhoun ISDs) | Tim Staffen |
| C. CTE Clusters - Rank List by Prosperity Regions | Tim Staffen |
| IV. MI STEM Network Update [5 min] (Exhibit) | Kathy Olsen for Diane Owen-Rogers |
| V. Education Updates [15 min] | |
| A. Secondary Education | Secondary Education Reps |
| B. Post-secondary Education | Post-secondary Education Reps |
| C. Adult Education | Jerry Johnson |
| D. Job Corps | Windy Rea |
| VI. Business Updates [5 min] | |
| A. Private Sector | Business Representatives |
| B. MWSW Business Services | Ashley Iovieno |
| VII. CEAC Metrics [2 min] (Exhibit) | Kathy Olsen |
| VIII. Other Member Updates & Announcements [10 min] | Members |
| IX. Public Comments [5 min] | |
| X. Upcoming Events [3 min] | |
| XI. Next CEAC Meeting – Monday, May 15, 2023, from 1:00-3:00 p.m.
at Kalamazoo RESA, 1819 E. Milham Rd, Portage MI 49002 | |
| XII. Adjournment | Tim Staffen, Chair |

Our Mission is to create and support a talent preparation system that will provide all students, youth to the adult learner, with the necessary academic, technical, and work behavior skills that will meet business and industry needs to maintain and enhance the economy of the Michigan Works! Southwest region.

METRICS

Establish Registered Apprenticeships for adults and youth.
Establish or participate in career pathway and exploration events.
Promote and positively impact the Governor's post-secondary credential attainment goal of 60% by 2030.

Career Educational Advisory Council (CEAC)

Meeting Minutes

December 5, 2022

CALL TO ORDER – Committee Vice-Chair, Jim Berry, called the meeting to order at 1:02 p.m. at Kalamazoo Regional Educational Service Agency, 1819 E. Milham Road, Portage, Michigan 49002.

MW SOUTHWEST CEAC MEMBERS PRESENT

Jim Berry (SJCISD)
Jerry Johnson (ISD-Calhoun)
David Maurer (PS-Humphrey Products)
Brian O'Donnell (PS-Martell Electric)

Dustin Scharer (BACC/CTE)
Jim Sertic (PS-Sertic Consulting)
Tammy Schiller (CISD/CACC)

STAFF PRESENT

Ashley Iovieno (MWSW)

Kathy Olsen (MWSW)

OTHERS PRESENT

Scott Cubberly (KCC)
Rey Guzman (LEO-WD)

Lisa Smith (KRESA)

MW SOUTHWEST CEAC MEMBERS ABSENT

Dr. Dennis Baskin (KCC)
Jeff Birkholz (PS-DENSO)
James Brylowski /James Callahan,
(Labor-SW MI Building Trades)
Cameron Buck/Eric Stewart (KRESA-CTE)
Dr. Deb Coates/Dr Mark Dunnebeck (KVCC)
Mitch Fowler (BCPS)
LaToy Green (Parent)

Dr. Madonna Jackson (GOCC)
Dr. Diane Owen-Rogers (MiSTEM)
Andrea Rainer (Huron Pottawatomi)
Windy Rea (Job Corps)
Tim Staffen (CISD)
Ken Willcutt (Labor-Plumbers & Pipefitters
& HVACR Local Union 357)

INTRODUCTIONS/ANNOUNCEMENTS

Individuals present introduced themselves and the agency/company they represented.

MINUTES

Motion by Brian O'Donnell and supported by Dustin Scharer to approve the May 16, 2022 and the September 18, 2022 CEAC meeting minutes. Approved.

MI STEM NETWORK UPDATE

No report.

BEST PRACTICE

Jim Berry shared information pertaining to the Talent Portfolios website that is being used in St. Joseph County. <https://careerprepped.com/cp/stacy-avery-1664368714>. He reported this is a free tool from Career Prepped. Skill badges are available in six areas and if the skill is not nationally recognized, an endorsement from employers is needed. For more information contact Jim Berry at jberry@sjcisid.org, Ms. Avery at St.

Joseph County CTE, or Doug Bush at Gratiot and Isabella Counties CTE. Some members indicated an interest in learning more about the Talent Portfolios and the link to more information was sent to members following the meeting. Jim Berry also reported that there will be a presentation on this topic at the Career Education Conference in Grand Rapids in early 2023.

EDUCATION UPDATES

Secondary Education

Branch Area ISD – Dustin Scharer reported Branch County is celebrating 50 years of Career Education. A Career Day was held for approximately five hundred (500) ninth grade students Last month, 10th grade students visited the Career Center and each student was toured two programs of their choice. Architecture is being added to the CTE curriculum. Kathy Olsen mentioned that the evening news recently reported on an event at WMU where students from Branch County were recognized for developing a UV light. Dave Maurer reported the Annual WMU Innovation EXPO is a STEM competition hosted by WMU's Engineering School. Vicksburg Schools also sent students to the event. Following the meeting, additional information about the event was obtained and sent to members in an email. In summarizing, K-12 and WMU students presented their products, models, and prototypes to a panel of judges and the community. The winners of the 2023 competition will be listed with photos on the website <https://wmich.edu/ieeem/innovationexpo>. For this year's event, nine (9) schools participated. The schools were represented by 148 teams where 348 students pitched their innovations. Additional schools are encouraged to participate. For more information, contact Carey Schoolmaster carey.schoolmaster@wmich.edu.

Calhoun County ISD – Tammy Schiller reported tenth grade students will visit the Calhoun Area Career Center in February 2023. Current students will be giving presentations. With the welding expansion, the number of available slots has doubled and next year they should be able to accommodate one hundred welding students.

St. Joseph County ISD – Jim Berry reported St. Joseph County is planning Career Exploration Days and Glen Oaks Community College for 10th grade students. Two full days are set aside for this all-county event and approximately 780 students are expected to participate. New videos were created to promote all the CTE programs. They can be accessed on their website at <https://www.sjcisd.org/District/Department/8-Career-and-Technical-Education/123-Untitled.html>. He announced Jenny Geno from Saginaw ISD was recognized by ACTE CareerTech VISION as the National Administrator of the Year and noted that this is an amazing honor.

Kalamazoo RESA – Lisa Smith reported KRESA/YOU is offering a CareerNow curriculum for youth ages 16-24 where the program can pay for short-term training. They are also working on a State Apprenticeship Expansion (SAE) grant in conjunction with area high schools and employers for apprenticeship referrals. She reported that an outcome of meetings with counselors was to develop ways to incorporate apprenticeship training into college nights. Two events were planned and recently held to link educators, students, and families with apprenticeship opportunities. One event was held on November 1, 2022 to inform and a second event was held to connect directly with apprenticeship training programs. Ms. Smith further reported the SAE grant is more focused on developing new apprenticeships, as well as, how to get started and how to expand recruitment. Some funding is also available through this grant to provide supportive services.

Post-Secondary Education

Kellogg Community College – Scott Cubberly reported Kellogg Community College (KCC) participated in the October 25 and 26, 2022 MiCareerQuest™ event that was held at the Kalamazoo Expo Center. On October 18 and 19, 2022, Battle Creek Unlimited, KCC and Michigan Works! Southwest partnered for a Manufacturing Day/Week event held at the KCC RMTTC building. Ten employers and 671 students participated. Tomorrow, December 6, 2022, an event will be held at the Albion Eastern Academic Center

in Marshall. Three schools will send students to see presentations on multiple programs. KCC is also offering free training for EMT, phlebotomy, forklift, and industrial trades training for eligible participants.

Adult Education

Jerry Johnson reported some of the Adult Education providers continue to struggle with using the state's NexSys system for the adult education grants. Also, several providers have been challenged running an adult education program in the jails due to COVID. Staff shortages and laws limiting access to Adult Education have further added to the struggle providers are having. He further reported that Free and Appropriate Public Education (FAPE) in Michigan is required through age 26; however, there is a glitch in the law for someone who left K-12 education and did not identify with an AEP. Locally, the response is to encourage local ISDs to engage with local law enforcement to identify individuals in need of adult education. Several programs around the state that are at the bottom of the scale regarding performance have been identified and the Michigan Association for Community and Adult Education has identified staffing and professional development needs to lift programs. This includes programs in the Southwest Michigan region.

MI Job Corps

No report.

BUSINESS UPDATES

Private Sector – David Maurer reported Portage Elementary Schools held a STEAM event on October 21, 2022 at the Air Zoo and approximately 3,500 individuals attended the event. “ALL Portage Elementary students are invited to the Air Zoo in Portage to explore over 50 hands-on exhibits provided by local companies and educational institutions designed to spark a passion and excitement for STEAM (Science, Technology, Engineering, Arts, and Mathematics).” The website with more information and photos from this year's and a previous year's event (2019) is <https://www.portageeducationfoundation.org/steam.html>. This information was sent to members in an email following the meeting.

Brian O'Donnell reported today's announcement from Pfizer of a \$750 million investment is projected to bring 300 jobs to the area. He added that there is a need for 500,000 construction workers across the nation. He reported that he just completed the Chamber's Talent Pipeline Management (TPM) program. This training has a good emphasis on addressing the talent pipeline and identifying skill gap shortages. He received a paid stipend to attend and has one year access to the online database. Ashley Iovieno reported she took the TPM class prior to the pandemic. She noted that Kentucky has developed some progressive TPM models.

MW! Southwest Business Services – Ashley Iovieno reported the Career Day event held in Branch County was already reported on by Dustin Scharer. Staff are currently planning for a MiCareerQuest™ event in St. Joseph County that will be held in the spring of 2023. Another MiCareerQuest™ event for students in Calhoun and Branch Counties, the second in calendar year 2022, was held at the Kalamazoo Expo in October 2022. Earlier in today's meeting, Scott Cubberly reported on Manufacturing Day/Week events held in Calhoun County. Preliminary discussion with the Battle Creek manufacturing Council is taking place regarding an event in February to help educators understand more about career pathways in manufacturing. Applications for FY23 Going Pro Talent Fund can be submitted through the end of this week. Business Services staff have been extremely busy holding many in-depth conversations with regarding their grant applications. Ms. Iovieno also reported on the State Apprenticeship Expansion (SAE) Grant that Lisa Smith mentioned earlier today. Ms. Iovieno reported that St. Joseph County is doing incredible work with the SAE grant and that two more students were accepted at American Axle. Additional funding is expected to support apprenticeships.

Rey Guzman reported it is great to hear about all the activities, such as the MiCareerQuest™ events, Talent Tours, Manufacturing Day, and the welding expansion for Career Technical Education, in the Michigan

Works! Southwest service area. The impact of funds spent for career awareness is important to the State. He stressed the importance of exposing younger students to career paths and jobs and expressed appreciation for the companies that send staff to the schools to meet and share information with students and their families. Mr. Guzman also shared that the Apprenticeship Expansion Team is working with the Michigan Manufacturers Association to promote apprenticeships and an increase in funding for this effort is expected. They are working to help employers understand the value of apprenticeships and that everything is apprenticeable. He noted it takes time for students and parents to grab onto the idea and for employers to set the stage for hiring; that is, bureaucracy to reality takes time. He recognized the great community partnerships between employers, Intermediate School Districts, post-secondary education, and Michigan Works! that exist in the Michigan Works! Southwest service area. Mr. Guzman also reported the state is hoping to increase MICA (Michigan Industry Cluster Approach) funding for Employer Led Collaboratives with different industries and to include the Talent Pipeline Management (TPM) process in developing common training.

CEAC METRICS

Kathy Olsen reminded members to send her their list of career pathway and exploration events that have occurred since July 1, 2022, as well as any that are planned this school year through June 30, 2023.

OTHER MEMBER UPDATES

In St. Joseph County, the CTE Ambassadors Program that brings the student voice in decision making received recognition. Eighteen (18) teachers nominated 18 students for the National Technical Honor Society. Recognition includes posting yard signs in the yards of CTE interns and an event in February.

PUBLIC COMMENTS

None.

UPCOMING EVENTS / ANNOUNCEMENTS

Michigan Career Education Conference (Jan 29-31, 2023) at Amway Grand Plaza Hotel, Grand Rapids, Michigan. A link to [more information](#). This information was also shared with members in an email following the meeting.

NEXT CEAC MEETING

The next CEAC meeting is scheduled for Monday, March 20, 2023, from 1:00-3:00 p.m. Kathy Olsen will secure a location. Members are encouraged to attend in-person; however, in case a member or partner's situation warrants virtual attendance, a virtual link will also be made available.

ADJOURNMENT

Motion was made by Brian O'Donnell and supported by Jerry Johnson to adjourn. Motion carried.

With no further business to conduct the meeting was adjourned at approximately 1:58 p.m.

Respectfully submitted,

Kathy Olsen, CEAC staff support

Tim Staffen, Chair CEAC

Kalamazoo/St. Joseph County -- Region 20 Secondary Career & Technical Education Perkins V Grant

- I. **Program Name:** Secondary CTE Perkins V Grant
- II. **Program Dates:** July 1, 2023-June 30, 2024
- III. **Funding Source:** Carl D. Perkins Career and Technical Education Act
- IV. **Tentative Allocation:** \$628,553

V. **Grant Purpose:** Funds from this grant support state-approved career and technical education (CTE) programs that provide students with academic and technical knowledge and skills in Grades 9-12 for further education and careers. Specific emphasis is given to at-risk special populations in CTE programs including disabled, economically disadvantaged, nontraditional, single parent, homeless, in or aged out of foster care, migrant workers, students with a parent in the armed forces, and limited English proficiency.

VI. **Program Description:** Seven core performance indicators have been identified by the state and federal governments as a guide for CTE program development, improvement, and enrollment; and also for program evaluation. The region's CTE Perkins funds will be used to address the needs of special populations students in these areas.

- 1S1: Four-Year Graduation Rate
- 2S1: Academic Proficiency in Reading
- 2S2: Academic Proficiency in Math
- 2S3: Academic Proficiency in Science
- 3S1: Post-Program Placement
- 4S1: Non-traditional Program Concentration
- 5S1: Program Quality - Attained Recognized Postsecondary Credential

Academic proficiency is measured by the Michigan Merit Exam results, which usually students take in April of their junior year. Technical skills are measured by various certification tests, which are currently being re-defined by the Michigan Department of Education's Office of Career & Technical Education.

VII. **Funding Formula:** Twenty-six percent of the Region 20 Perkins grant funds are distributed to St. Joseph County (\$163,424). The remaining seventy-four percent of Region 20 Perkins funds are distributed to Kalamazoo County (\$465,129). For both Kalamazoo and St. Joseph, the K-12 public school districts make up the CTE Consortium with the superintendents serving as the Executive Board and the Intermediate School District as the operating and financial agent. All funds are directed to the Consortium and not to individual programs or schools.

The plans to distribute Perkins Grant funds in 2023-24 in **St. Joseph County** will be as follows:

- Continue partially funding a CTE Coordinator position to (1) provide assistance to Special Populations students and monitor progress towards program completion and next steps after high school, and (2) implement Mathematics strategies and curriculum in CTE classes and

analyze follow-up results with CTE instructors and staff with the goal of increasing the level of Mathematics of CTE students. (*1S1 Graduation rate, 2S1 Math attainment*).

- Continue partially funding a Career Awareness Coordinator position to sustain efforts to assist nontraditional students to complete the program and provide those students with an industry mentor/employer with the goal of transitioning non-trad students to a post-secondary (*4S1 Non-Traditional Completion*).
- Continue partial funding and growing the use of Xello in the county, a career-exploration software that provides the opportunity for students to explore nontraditional careers through the use of career exploration software with the goal of helping all students K-12 relate career goals to their educational experience, high school schedule, etc. (*4S1 Non-Traditional Participation*).
- Continue partially funding a CTE Work-Based Learning Coordinator position to provide multiple opportunities for potential students to explore nontraditional careers through open houses, sophomore explorations and presentations with the goal of reaching 500 potential nontraditional students. Current nontraditional students will participate as ambassadors/presenters in open house, sophomore explorations, and other presentations and will be featured in recruiting materials. (*4S1 Non-Traditional Participation*).
- Continue partially funding a CTE Administrative position to implement Reading strategies and online curriculum in CTE classes and analyze follow-up results with CTE instructors and staff. (*2S1 Reading attainment*).
- Continue and expand funding to provide testing for students to attain industry-recognized credentials and increase awareness of student skills as related to employment qualifications, credentials, and availability for related employment opportunities. (*5S1 Program Quality*).
- Partially fund a CTE Career Prep/Work-Based Learning Coordinator to assist non-traditional students with job searches, resume writing, talent portfolios, interview skills, apprenticeship applications, and job interviews. (*4S1 Non-Traditional Participation*.)
- Fund a contract employee to evaluate and improve programs to increase student placement by working on CTEIS Follow-Up surveys, enrollment, credit coordination, and CTE course credential testing. (*3S1 Post-Program Placement*).
- Professional Development: Non-instructional staff will receive industry training that demonstrates technical knowledge and skills as well as integration of credentials and competencies to improve placement rates to meet state determined levels of performance. (*5S1 Program Quality*).

TOTAL ALLOCATION: \$163,424

The plans to distribute Perkins Grant funds in 2023-24 in **Kalamazoo County** will be as follows:

- CTE Student Services Coordinator will provide services to assist CTE SPOPS students for successful completion through activities involving monitoring of attendance (*1S1 Graduation rate*).
- CTE Support Personnel will provide services to assist CTE SPOPS students for successful completion through monitoring of attendance, grade, behavior reports, etc. (*1S1 Graduation rate*).

- CTE Student Services Coordinator will provide services to assist CTE SPOPS for successful program completion. (*1S1 Graduation rate*).
- CTE Coordinator will review, analyze, implement and monitor math activities for CTE programs that score below the state target (*2S2 Academic proficiency math*).
- CTE Work-Based Learning Coordinator will partner with advisory committees and regional B & I to place CTE students in high intensity work-based learning opportunities as well as partnering in regional career fairs for potential CTE students (*5S1 Post-program placement*).
- CTE Personnel will engage in sustained efforts to assist CTE SPOPS students with program completion and with providing business/industry mentors (*5S1 Post-program placement*).
- CTE Coordinator will provide multiple opportunities for potential CTE students to explore nontraditional careers through open houses, career fairs, sophomore explorations and presentations, etc. (*4S1 Nontraditional program placement*).
- CTE Personnel will provide multiple opportunities for potential CTE students to explore nontraditional careers through open houses, career fairs, sophomore explorations and presentations, etc. (*4S1 Nontraditional program placement*).
- CTE Coordinator will provide services for continuous improvement in career/curricular areas with CTE programs for student success in earning a recognized post-secondary credential (*5S1 Program quality*).
- Industry Recognized Credential Assessments will be purchased for CTE student concentrators in programs with identified B & I credentials (*5S1 Program quality*).

TOTAL ALLOCATION: \$465,129

Barry/Branch/Calhoun - Region 21
Secondary Career and Technical Education Perkins Grant

- I. **Program Name:** Secondary CTE Perkins V Grant
- II. **Program Dates:** July 1, 2023 - June 30, 2024
- III. **Program Source:** Carl D. Perkins Career and Technical Education Act
- IV. **Tentative Allocation: \$510,677**
- V. **Grant Purpose:** Funds from this grant support state-approved career and technical education (CTE) programs that provide students with academic and technical knowledge and skills in Grades 9-12 for further education and careers. Specific emphasis is given to at-risk special populations in CTE programs including disabled, economically disadvantaged, nontraditional, single parent, homeless, in or aged out of foster care, migrant workers, students with a parent in the armed forces, and limited English proficiency.
- VI. **Program Description:** Seven core performance indicators have been identified by the state and federal governments as a guide for CTE program development, improvement, and enrollment; and also for program evaluation. The region's CTE Perkins funds will be used to address the needs of special populations students in these areas.
- 1S1: Four-Year Graduation Rate
2S1: Academic Proficiency in Reading
2S2: Academic Proficiency in Math
2S3: Academic Proficiency in Science
3S1: Post-Program Placement
4S1: Non-traditional Program Concentration
5S1: Program Quality - Attained Recognized Postsecondary Credential
- VII. **Funding Formula:** Five percent of the total grant will cover administrative expenses for Barry (\$2,553), Branch (\$7,405) and Calhoun ISDs (\$15,575). Approximately \$5,000 will be directed to regional planning and professional development for CTE staff in the region. **The remainder** of the grant will be allocated according to this agreed-upon formula:
- 50% will be distributed to CTE programs with 20% to Barry ISD, 20% to Branch ISD, 60% to Calhoun ISD.
 - 50% will be distributed to CTE programs in each ISD based upon the previous year's student hours from the X0107 Funding Report.
- VIII. **Activities: Barry ISD** will use Perkins funds in the following ways:
- Continue funding a Business program paraprofessional at Hastings High School to increase the support for reading/language arts skills for CTE students. (2S1: *Academic Proficiency in Reading - \$3,000*)
 - Continue funding a part-time paraprofessional at Hastings High School to increase the support for math skills for CTE Culinary Arts students. (2S2: *Academic Proficiency in Math - \$4,000*)

- Continue funding a part-time paraprofessional at Hastings High School to increase the support for math skills for CTE Engineering Design students. (2S2: *Academic Proficiency in Math* - \$7,000)
- Continue funding a part-time paraprofessional at Hastings High School to increase the support for science skills for CTE Agriculture students. (2S3: *Academic Proficiency in Science* - \$15,000)
- Hastings will provide additional staff time to administer CTE follow-up surveys, and to record, retrieve and analyze the data. (3S1: *Post-Program Placement* - \$3,000)
- Continue funding career resources for Delton Kellogg H.S. (3S1: *Post-Program Placement* - \$1,834)
- Hastings staff will work with CTE students (including those in programs non-traditional for their gender) to explore career options, organize visits to post-secondary institutions, and assist with college applications. (4S1: *Non-Traditional Program Concentration* - \$31,232)
- Delton Kellogg High School will update the CTE Construction Trades program through the purchase of industry standard portable battery tools to use on the worksite and in the CTE program. (5S1: *Program Quality-Attained Recognized Postsecondary Credential* - \$6,955)

TOTAL ALLOCATION: \$74,574

Branch ISD, The Branch Area Career Center will use Perkins funds in the following ways:

- Continue support for a Special Populations Coordinator to work with special populations students to help plan their academic plans and future plans for education, training and employment. (1S1: *Four-Year Graduation Rate* - \$26,165)
- Continue support for an Attendance Coordinator to work with students, parents, teachers and counselors to improve student attendance. (1S1: *Four-Year Graduation Rate* - \$11,745)
- Continue support of an ELA Consultant to co-teach with the CTE instructors to increase student proficiency in reading. (2S1: *Proficiency in Reading* - \$26,165)
- Continue support for a Special Populations Paraprofessional to work in a CTE program with a high special populations enrollment to help students develop necessary skills for academic and technical success. (2S1: *Proficiency in Reading* - \$1,230)
- Continue support for a Math Consultant to co-teach with the CTE instructors to increase student proficiency in mathematics. (2S2: *Proficiency in Math* - \$26,165)
- Continue support for a certified school Counselor to provide study skills training and assistance to help 30 at-risk students succeed in their CTE programs. (3S1: *Post-Program Placement* - \$26,165)

TOTAL ALLOCATION: \$125,040

Calhoun ISD, The Calhoun Area Career Center will use Perkins funds in the following ways:

- Partial salary/benefits (25%) for a Special Populations Coordinator to assist with identifying special population students in CTE programs at risk of not graduating and making sure they get the support they need to be successful. (1S1: *Four-Year Graduation Rate* - \$27,806)
- Partial salary/benefits (25%) of a Student Services Academic Consultant to assist CTE students in the area of reading language arts. (2S1: *Proficiency in Reading* - \$33,154)
- Partial salary/benefits (25%) of a Student Services Academic Consultant to assist CTE students in the area of math. (2S2: *Proficiency in Math* - \$33,153)

- Partial salary/benefits (25%) of a Student Services Academic Consultant to assist CTE students in the area of science. *(2S3: Proficiency in Science - \$33,155)*
- Continue to use a consulting agency to conduct the follow-up survey at CACC. Survey data will be shared with advisory committee members. *(3S1: Post-Program Placement - \$8,900)*
- Partial salary/benefits (50%) of a Career Development Coordinator to assist CTE students with career development activities in their CTE programs. *(3S1: Post-Program Placement - \$55,607)*
- Cost of career development resource tools for CTE students grades 9-12. *(3S1: Post-Program Placement - \$20,394)*
- Partial salary/benefits (25%) of an Articulation Coordinator at CACC to coordinate and manage current and future articulation agreements with post secondary partners for CTE programs. *(3S1: Post-Program Placement - \$27,803)*
- Partial salary/benefits (25%) of a Student Services Academic Consultant to assist CTE students in programs non traditional for their gender to be successful. *(4S1: Non-traditional Program Concentration - \$33,155)*
- Partial cost of ESL Consultants (Burmese and Spanish) to support ESL CTE students at CACC. *(5S1: Program Quality-Attained Recognized Postsecondary Credential - \$17,361)*
- Regional professional development activities for staff to enhance CTE programs for students in CEPD 36. *(5S1: Program Quality-Attained Recognized Postsecondary Credential - \$5,000)*

TOTAL ALLOCATION: \$311,063



PROSPERITY REGION 1 UPPER PENINSULA

COUNTIES:

Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic,
Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette,
Menominee, Ontonagon, Schoolcraft

CLUSTER	ANNUAL OPENINGS	WAGE
1. Health Science	835	\$ 22.53
Dental Hygienists	10	\$ 32.23
Registered Nurses	135	\$ 29.21
Occupational Therapy Assistants	5	\$ 28.21
Diagnostic Medical Sonographers	5	\$ 25.67
Respiratory Therapists	5	\$ 23.90
2. Business Management & Administration	1,285	\$ 17.69
Industrial Production Managers	10	\$ 48.48
Computer and Information Systems Managers	5	\$ 46.35
Managers, All Other	35	\$ 43.80
Human Resources Managers	5	\$ 42.79
Administrative Services Managers	15	\$ 37.84
3. Architecture & Construction	590	\$ 24.13
Construction Managers	15	\$ 40.69
Civil Engineers	10	\$ 38.22
Electrical Power-Line Installers and Repairers	25	\$ 33.58
Surveyors	5	\$ 33.16
Electricians	80	\$ 29.51
4. Manufacturing	695	\$ 19.02
Electrical and Electronics Repairers, Commercial and Industrial	5	\$ 38.07
First-Line Supervisors of Production and Operating Workers	50	\$ 27.53
Production, Planning, and Expediting Clerks	10	\$ 26.54
Radio, Cellular, and Tower Equipment Installers and Repairers	5	\$ 26.53
Installation, Maintenance, and Repair Workers, All Other	5	\$ 26.45
5. Law, Public Safety, Corrections & Security	315	\$ 23.92
Detectives and Criminal Investigators	10	\$ 38.80
First-Line Supervisors of Correctional Officers	10	\$ 31.38
First-Line Supervisors of Police and Detectives	10	\$ 28.75
Probation Officers and Correctional Treatment Specialists	15	\$ 28.73
Correctional Officers and Jailers	95	\$ 27.08
6. Human Services	980	\$ 14.40
7. Education & Training	365	\$ 24.71
8. Hospitality & Tourism	615	\$ 11.61
9. Energy	420	\$ 25.54
10. Transportation, Distribution & Logistics	590	\$ 18.26
11. Finance	280	\$ 20.20
12. Marketing	395	\$ 18.75
13. Agriculture, Food & Natural Resources	145	\$ 19.84
14. Science, Technology, Engineering & Mathematics	65	\$ 35.01
15. Arts, Audio/Video Technology & Communications	95	\$ 18.33
16. Government & Public Administration	75	\$ 20.25
17. Information Technology	60	\$ 23.58

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.





PROSPERITY REGION 2 NORTHWEST MICHIGAN

COUNTIES:

Antrim, Benzie, Charlevoix, Emmet, Grand Traverse,
Kalkaska, Leelanau, Manistee, Missaukee, Wexford

CLUSTER	ANNUAL OPENINGS	WAGE
1. Health Science	1,030	\$ 26.33
Dental Hygienists	20	\$ 31.91
Registered Nurses	195	\$ 30.85
Diagnostic Medical Sonographers	5	\$ 28.84
Cardiovascular Technologists and Technicians	5	\$ 27.60
Respiratory Therapists	10	\$ 27.20
2. Business Management & Administration	1,595	\$ 18.15
Purchasing Managers	5	\$ 49.43
Computer and Information Systems Managers	10	\$ 45.00
Industrial Production Managers	15	\$ 42.48
Human Resources Managers	5	\$ 42.29
General and Operations Managers	160	\$ 34.89
3. Architecture & Construction	645	\$ 21.49
Construction Managers	20	\$ 44.77
Electrical Power-Line Installers and Repairers	20	\$ 36.51
Surveyors	5	\$ 32.83
Architects, Except Landscape and Naval	5	\$ 32.60
Civil Engineering Technicians	5	\$ 27.13
4. Manufacturing	770	\$ 18.52
First-Line Supervisors of Production and Operating Workers	75	\$ 26.07
Mechanical Drafters	5	\$ 22.71
Production, Planning, and Expediting Clerks	10	\$ 22.20
Lathe and Turning Machine Tool Setters, Operators, and Tenders	15	\$ 21.97
Tool and Die Makers	5	\$ 21.89
5. Human Services	770	\$ 14.45
Social and Community Service Managers	20	\$ 36.93
Child, Family, and School Social Workers	50	\$ 26.13
Massage Therapists	20	\$ 25.94
Health Educators	5	\$ 24.08
Community Health Workers	10	\$ 19.07
6. Energy	505	\$ 22.91
7. Hospitality & Tourism	880	\$ 13.17
8. Marketing	530	\$ 23.09
9. Education & Training	485	\$ 21.31
10. Transportation, Distribution & Logistics	555	\$ 19.13
11. Finance	340	\$ 22.17
12. Law, Public Safety, Corrections & Security	180	\$ 22.99
13. Science, Technology, Engineering & Mathematics	80	\$ 36.15
14. Information Technology	80	\$ 28.21
15. Agriculture, Food & Natural Resources	215	\$ 18.13
16. Arts, Audio/Video Technology & Communications	115	\$ 18.42
17. Government & Public Administration	55	\$ 19.92

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.





**PROSPERITY REGION 3
NORTHEAST
MICHIGAN**

COUNTIES:

Alcona, Alpena, Cheboygan, Crawford, Iosco, Montmorency,
Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon

CLUSTER	ANNUAL OPENINGS	WAGE
1. Business Management & Administration	670	\$ 15.71
Industrial Production Managers	5	\$ 47.74
Computer and Information Systems Managers	< 5	\$ 44.23
Administrative Services Managers	5	\$ 34.70
General and Operations Managers	80	\$ 25.27
Executive Secretaries and Executive Administrative Assistants	10	\$ 24.90
2. Health Science	395	\$ 20.13
Dental Hygienists	10	\$ 31.21
Registered Nurses	65	\$ 28.67
Diagnostic Medical Sonographers	< 5	\$ 28.14
Respiratory Therapists	5	\$ 26.85
Veterinary Technologists and Technicians	< 5	\$ 26.69
3. Human Services	515	\$ 12.12
Social and Community Service Managers	10	\$ 30.95
Child, Family, and School Social Workers	30	\$ 22.18
Morticians, Undertakers, and Funeral Directors	5	\$ 19.70
Community Health Workers	15	\$ 18.87
First-Line Supervisors of Personal Service Workers	15	\$ 16.80
4. Architecture & Construction	305	\$ 20.18
Electrical Power-Line Installers and Repairers	15	\$ 38.17
Civil Engineers	5	\$ 34.05
Construction Managers	10	\$ 27.36
Civil Engineering Technicians	5	\$ 26.72
Cost Estimators	5	\$ 21.82
5. Manufacturing	375	\$ 16.96
Engineering Technicians, Except Drafters, All Other	< 5	\$ 28.49
Electrical and Electronics Repairers, Commercial and Industrial	< 5	\$ 27.09
Installation, Maintenance, and Repair Workers, All Other	10	\$ 26.45
5. Hospitality & Tourism	400	\$ 11.06
Food Service Managers	15	\$ 21.18
Lodging Managers	5	\$ 18.40
First-Line Supervisors of Food Preparation and Serving Workers	90	\$ 16.43
7 Education & Training	205	\$ 21.15
8. Energy	275	\$ 19.50
9. Finance	200	\$ 18.09
10. Transportation, Distribution & Logistics	310	\$ 16.85
11. Marketing	290	\$ 18.77
12. Law, Public Safety, Corrections & Security	90	\$ 20.71
13. Government & Public Administration	20	\$ 26.34
14. Science, Technology, Engineering & Mathematics	25	\$ 36.49
15. Information Technology	20	\$ 25.81
16. Agriculture, Food & Natural Resources	80	\$ 16.93
17. Arts, Audio/Video Technology & Communications	60	\$ 17.77

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.



STATE OF MICHIGAN
Department of Technology, Management and Budget
Bureau of Labor Market Information and Strategic Initiatives



PROSPERITY REGION 4 WEST MICHIGAN

COUNTIES:

Allegan, Barry, Ionia, Kent, Lake, Mason, Mecosta,
Montcalm, Muskegon, Newaygo, Oceana, Osceola, Ottawa

CLUSTER	ANNUAL OPENINGS	WAGE
1. Health Science	5,220	\$ 23.40
Nuclear Medicine Technologists	5	\$ 32.88
Magnetic Resonance Imaging Technologists	10	\$ 32.48
Registered Nurses	1,010	\$ 31.47
Dental Hygienists	105	\$ 30.88
Diagnostic Medical Sonographers	35	\$ 28.73
1. Business Management & Administration	9,265	\$ 19.49
Computer and Information Systems Managers	90	\$ 52.50
Industrial Production Managers	195	\$ 50.10
Purchasing Managers	50	\$ 48.03
General and Operations Managers	880	\$ 47.70
Human Resources Managers	55	\$ 45.00
3. Manufacturing	7,325	\$ 19.32
First-Line Supervisors of Production and Operating Workers	645	\$ 28.76
Electrical and Electronics Repairers, Commercial and Industrial	15	\$ 28.49
Medical Equipment Repairers	25	\$ 26.76
Electrical and Electronics Drafters	10	\$ 26.54
Model Makers, Metal and Plastic	10	\$ 26.53
4. Marketing	3,770	\$ 25.17
Sales Managers	170	\$ 59.88
Marketing Managers	75	\$ 55.73
Public Relations and Fundraising Managers	20	\$ 39.23
Advertising and Promotions Managers	10	\$ 37.93
Sales Reps, Technical and Scientific Products	110	\$ 35.76
5. Education & Training	3,070	\$ 24.95
Special Education Teachers, All Other	15	\$ 33.39
Career/Technical Education Teachers, Secondary School	25	\$ 31.76
Special Education Teachers, Kindergarten and Elementary School	30	\$ 30.77
Special Education Teachers, Middle School	10	\$ 29.37
Special Education Teachers, Secondary School	25	\$ 28.16
6. Transportation, Distribution & Logistics	3,745	\$ 19.64
7. Architecture & Construction	3,150	\$ 23.55
8. Energy	2,630	\$ 25.51
9. Human Services	3,440	\$ 14.28
10. Finance	2,255	\$ 26.20
11. Science, Technology, Engineering & Mathematics	970	\$ 36.32
12. Information Technology	910	\$ 31.35
13. Hospitality & Tourism	3,115	\$ 13.50
14. Law, Public Safety, Corrections & Security	885	\$ 25.40
15. Government & Public Administration	235	\$ 26.34
16. Agriculture, Food & Natural Resources	1,195	\$ 18.90
17. Arts, Audio/Video Technology & Communications	735	\$ 22.29

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.



STATE OF MICHIGAN
Department of Technology, Management and Budget
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PROSPERITY REGION 5 EAST CENTRAL MICHIGAN

COUNTIES:

Arenac, Bay, Clare, Gladwin, Gratiot, Isabella,
Midland, Saginaw

CLUSTER	ANNUAL OPENINGS	WAGE
1. Business Management & Administration	2,585	\$ 18.02
Computer and Information Systems Managers	25	\$ 55.60
Industrial Production Managers	20	\$ 50.76
Administrative Services Managers	25	\$ 38.94
General and Operations Managers	245	\$ 37.65
Human Resources Specialists	50	\$ 28.47
2. Health Science	1,855	\$ 22.48
Registered Nurses	330	\$ 31.99
Nuclear Medicine Technologists	> 5	\$ 28.98
Occupational Therapy Assistants	5	\$ 28.66
Dental Hygienists	25	\$ 28.61
Respiratory Therapists	20	\$ 27.04
3. Manufacturing	1,575	\$ 19.77
First-Line Supervisors of Production and Operating Workers	135	\$ 26.17
Tool and Die Makers	40	\$ 25.80
Engineering Technicians, Except Drafters, All Other	10	\$ 25.18
Industrial Engineering Technicians	20	\$ 23.13
Engine and Other Machine Assemblers	5	\$ 22.60
4. Human Services	1,260	\$ 12.11
Social and Community Service Managers	25	\$ 34.70
Massage Therapists	15	\$ 26.15
Child, Family, and School Social Workers	80	\$ 22.56
Community Health Workers	10	\$ 21.52
Health Educators	5	\$ 17.90
5. Transportation, Distribution & Logistics	1,010	\$ 17.26
Mobile Heavy Equipment Mechanics, Except Engines	15	\$ 22.86
Bus and Truck Mechanics and Diesel Engine Specialists	45	\$ 20.49
Automotive Body and Related Repairers	35	\$ 18.52
Heavy and Tractor-Trailer Truck Drivers	385	\$ 17.90
Bus Drivers, School or Special Client	100	\$ 16.99
6. Education & Training	630	\$ 26.68
7. Marketing	770	\$ 23.24
7. Finance	630	\$ 23.71
9. Hospitality & Tourism	910	\$ 11.86
9. Architecture & Construction	980	\$ 23.03
11. Energy	735	\$ 23.89
12. Law, Public Safety, Corrections & Security	355	\$ 23.61
13. Arts, Audio/Video Technology & Communications	205	\$ 25.92
14. Information Technology	230	\$ 31.08
15. Science, Technology, Engineering & Mathematics	170	\$ 38.61
16. Agriculture, Food & Natural Resources	235	\$ 21.12
17. Government & Public Administration	80	\$ 26.34

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.





**PROSPERITY REGION 6
EAST
MICHIGAN**

COUNTIES:

Genesee, Huron, Lapeer, Sanilac, Shiawassee,
St. Clair, Tuscola

CLUSTER	ANNUAL OPENINGS	WAGE
1. Business Management & Administration	2,965	\$ 17.68
Purchasing Managers	10	\$ 51.15
Industrial Production Managers	35	\$ 50.69
Computer and Information Systems Managers	15	\$ 46.32
Managers, All Other	90	\$ 42.47
Human Resources Managers	15	\$ 42.19
2. Health Science	2,165	\$ 23.04
Registered Nurses	335	\$ 35.18
Nuclear Medicine Technologists	< 5	\$ 33.87
Magnetic Resonance Imaging Technologists	5	\$ 30.92
Dental Hygienists	70	\$ 30.29
Respiratory Therapists	20	\$ 28.29
3. Manufacturing	1,920	\$ 19.23
Mechanical Drafters	25	\$ 33.10
Engineering Technicians, Except Drafters, All Other	10	\$ 28.44
First-Line Supervisors of Production and Operating Workers	165	\$ 28.09
Electrical and Electronics Repairers, Commercial and Industrial	5	\$ 26.73
Painters, Transportation Equipment	10	\$ 25.75
4. Architecture & Construction	1,005	\$ 25.00
Construction Managers	20	\$ 39.17
Electrical Power-Line Installers and Repairers	30	\$ 37.32
Plumbers, Pipefitters, and Steamfitters	115	\$ 33.86
Civil Engineers	10	\$ 33.65
Surveyors	5	\$ 30.75
5. Education & Training	970	\$ 23.74
Special Education Teachers, Kindergarten and Elementary School	15	\$ 33.91
Special Education Teachers, All Other	10	\$ 32.95
Career/Technical Education Teachers, Secondary School	5	\$ 32.11
Special Education Teachers, Secondary School	15	\$ 29.42
Elementary School Teachers, Except Special Education	190	\$ 27.41
6. Human Services	1,395	\$ 12.23
7. Energy	930	\$ 24.73
8. Transportation, Distribution & Logistics	1,100	\$ 17.08
9. Finance	670	\$ 24.19
10. Marketing	975	\$ 23.33
11. Information Technology	185	\$ 31.75
12. Hospitality & Tourism	1,080	\$ 11.96
13. Law, Public Safety, Corrections & Security	395	\$ 23.55
14. Science, Technology, Engineering & Mathematics	160	\$ 38.70
15. Arts, Audio/Video Technology & Communications	225	\$ 20.95
16. Agriculture, Food & Natural Resources	320	\$ 17.18
17. Government & Public Administration	75	\$ 24.09

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.





**PROSPERITY REGION 7
SOUTH CENTRAL
MICHIGAN**

COUNTIES:
Clinton, Eaton, Ingham

CLUSTER	ANNUAL OPENINGS	WAGE
1. Business Management & Administration	3,520	\$ 20.83
General and Operations Managers	335	\$ 52.93
Administrative Services Managers	95	\$ 48.92
Industrial Production Managers	20	\$ 48.17
Computer and Information Systems Managers	55	\$ 45.05
Human Resources Managers	20	\$ 44.29
2. Health Science	1,305	\$ 25.08
Registered Nurses	265	\$ 35.93
Diagnostic Medical Sonographers	5	\$ 30.38
Dental Hygienists	45	\$ 30.00
Respiratory Therapists	10	\$ 28.49
Magnetic Resonance Imaging Technologists	5	\$ 28.28
3. Education & Training	880	\$ 28.83
Vocational Education Teachers, Postsecondary	25	\$ 34.79
Special Education Teachers, Kindergarten and Elementary School	15	\$ 34.25
Career/Technical Education Teachers, Secondary School	5	\$ 32.82
Special Education Teachers, Middle School	10	\$ 30.62
Special Education Teachers, Secondary School	15	\$ 29.58
4. Human Services	1,215	\$ 14.20
Social and Community Service Managers	40	\$ 32.83
Credit Counselors	10	\$ 27.63
Child, Family, and School Social Workers	90	\$ 24.72
Community Health Workers	30	\$ 19.63
Fitness Trainers and Aerobics Instructors	90	\$ 18.92
5. Finance	850	\$ 27.99
Personal Financial Advisors	20	\$ 49.11
Financial Managers	80	\$ 47.67
Budget Analysts	10	\$ 37.87
Claims Adjusters, Examiners, and Investigators	65	\$ 32.45
Accountants and Auditors	220	\$ 32.33
6. Architecture & Construction	870	\$ 27.53
7. Information Technology	625	\$ 33.11
7. Manufacturing	1,115	\$ 20.42
7. Marketing	910	\$ 24.70
10. Transportation, Distribution & Logistics	915	\$ 18.52
11. Energy	650	\$ 26.51
12. Hospitality & Tourism	840	\$ 12.85
13. Law, Public Safety, Corrections & Security	320	\$ 27.26
14. Science, Technology, Engineering & Mathematics	205	\$ 36.49
15. Arts, Audio/Video Technology & Communications	240	\$ 23.29
16. Agriculture, Food & Natural Resources	235	\$ 23.50
17. Government & Public Administration	100	\$ 26.35

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.



STATE OF MICHIGAN
Department of Technology, Management and Budget
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PROSPERITY REGION 8 SOUTHWEST MICHIGAN

COUNTIES:

Berrien, Branch, Calhoun, Cass, Kalamazoo,
St. Joseph, Van Buren

CLUSTER	ANNUAL OPENINGS	WAGE
1. Health Science	2,400	\$ 26.94
Registered Nurses	450	\$ 32.88
Magnetic Resonance Imaging Technologists	10	\$ 31.68
Dental Hygienists	45	\$ 31.40
Diagnostic Medical Sonographers	10	\$ 29.44
Occupational Therapy Assistants	15	\$ 28.58
2. Business Management & Administration	3,770	\$ 20.55
Industrial Production Managers	60	\$ 54.04
Purchasing Managers	15	\$ 52.72
Computer and Information Systems Managers	30	\$ 49.86
Human Resources Managers	25	\$ 49.12
General and Operations Managers	350	\$ 42.51
3. Manufacturing	2,630	\$ 19.54
Engineering Technicians, Except Drafters, All Other	20	\$ 29.32
First-Line Supervisors of Production and Operating Workers	305	\$ 28.65
Chemical Equipment Operators and Tenders	20	\$ 27.68
Mechanical Drafters	25	\$ 26.44
Mechanical Engineering Technicians	25	\$ 26.17
4. Architecture & Construction	1,265	\$ 27.30
Construction Managers	35	\$ 42.23
Electrical Power-Line Installers and Repairers	15	\$ 40.84
Civil Engineers	20	\$ 35.67
Architects, Except Landscape and Naval	15	\$ 34.03
Plumbers, Pipefitters, and Steamfitters	120	\$ 32.95
5. Human Services	1,335	\$ 28.37
Social and Community Service Managers	20	\$ 35.09
Child, Family, and School Social Workers	80	\$ 24.59
Health Educators	5	\$ 23.99
Community Health Workers	5	\$ 19.01
Fitness Trainers and Aerobics Instructors	30	\$ 18.90
6. Marketing	2,010	\$ 12.62
7. Energy	1,130	\$ 29.86
8. Education & Training	1,310	\$ 26.39
9. Finance	945	\$ 27.06
10. Transportation, Distribution & Logistics	1,335	\$ 19.65
11. Hospitality & Tourism	1,365	\$ 13.28
12. Science, Technology, Engineering & Mathematics	400	\$ 38.00
13. Law, Public Safety, Corrections & Security	420	\$ 26.78
14. Information Technology	320	\$ 35.32
15. Arts, Audio/Video Technology & Communications	320	\$ 21.94
16. Agriculture, Food & Natural Resources	575	\$ 18.02
17. Government & Public Administration	100	\$ 26.35

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.





PROSPERITY REGION 9 SOUTHEAST MICHIGAN

COUNTIES:

Hillsdale, Jackson, Lenawee, Livingston,
Monroe, Washtenaw

CLUSTER	ANNUAL OPENINGS	WAGE
1. Health Science	3,785	\$ 26.94
Registered Nurses	720	\$ 34.27
Dental Hygienists	75	\$ 33.62
Magnetic Resonance Imaging Technologists	20	\$ 31.53
Psychiatric Technicians	30	\$ 29.07
Respiratory Therapists	30	\$ 28.12
2. Business Management & Administration	5,945	\$ 20.55
Computer and Information Systems Managers	100	\$ 59.63
Industrial Production Managers	105	\$ 57.98
Human Resources Managers	30	\$ 53.90
Purchasing Managers	20	\$ 52.55
General and Operations Managers	505	\$ 47.80
3. Marketing	1,790	\$ 28.37
Marketing Managers	40	\$ 68.55
Public Relations and Fundraising Managers	25	\$ 62.41
Sales Managers	90	\$ 61.70
Sales Reps, Technical and Scientific Products	120	\$ 39.45
First-Line Supervisors of Non-Retail Sales Workers	80	\$ 34.97
4. Manufacturing	2,885	\$ 19.54
Painters, Transportation Equipment	15	\$ 31.13
Engineering Technicians, Except Drafters, All Other	20	\$ 30.31
First-Line Supervisors of Production and Operating Workers	235	\$ 29.01
Security and Fire Alarm Systems Installers	10	\$ 26.85
Medical Equipment Repairers	15	\$ 26.38
5. Science, Technology, Engineering & Mathematics	1,330	\$ 38.00
Electronics Engineers, Except Computer	40	\$ 44.02
Engineers, All Other	30	\$ 41.70
Industrial Engineers	315	\$ 41.34
Materials Engineers	5	\$ 40.56
Mechanical Engineers	220	\$ 39.92
6. Human Services	2,325	\$ 12.62
6. Energy	1,335	\$ 29.86
8. Education & Training	1,760	\$ 26.39
9. Architecture & Construction	1,550	\$ 27.30
10. Hospitality & Tourism	1,730	\$ 13.28
11. Finance	1,135	\$ 27.06
12 Information Technology	860	\$ 35.32
13. Transportation, Distribution & Logistics	1,475	\$ 19.65
14. Law, Public Safety, Corrections & Security	580	\$ 26.78
15. Arts, Audio/Video Technology & Communications	460	\$ 21.94
16. Government & Public Administration	95	\$ 26.35
17. Agriculture, Food & Natural Resources	390	\$ 18.02

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.





**PROSPERITY REGION 10
DETROIT
METRO**

COUNTIES:
Macomb, Oakland, Wayne

CLUSTER	ANNUAL OPENINGS	WAGE
1. Business Management & Administration	25,630	\$ 21.28
Computer and Information Systems Managers	445	\$ 63.52
Purchasing Managers	125	\$ 58.96
Compensation and Benefits Managers	15	\$ 58.81
Industrial Production Managers	340	\$ 56.37
General and Operations Managers	2,565	\$ 55.48
1. Health Science	14,335	\$ 25.48
Radiation Therapists	10	\$ 38.35
Registered Nurses	2,715	\$ 35.30
Nuclear Medicine Technologists	20	\$ 34.69
Healthcare Practitioners and Technical Workers, All Other	15	\$ 32.20
Dental Hygienists	255	\$ 31.38
3. Manufacturing	14,445	\$ 22.93
Model Makers, Metal and Plastic	95	\$ 33.54
Engineering Technicians, Except Drafters, All Other	140	\$ 32.99
First-Line Supervisors of Production and Operating Workers	1,150	\$ 32.70
Electro-Mechanical Technicians	25	\$ 30.03
Mechanical Drafters	285	\$ 29.52
4. Marketing	8,990	\$ 30.63
Sales Managers	525	\$ 66.20
Marketing Managers	215	\$ 63.51
Advertising and Promotions Managers	40	\$ 57.16
Public Relations and Fundraising Managers	55	\$ 56.32
Real Estate Brokers	40	\$ 42.41
5. Science, Technology, Engineering & Mathematics	6,185	\$ 45.82
Chemical Engineers	25	\$ 48.53
Electronics Engineers, Except Computer	125	\$ 45.71
Social Scientists and Related Workers, All Other	20	\$ 45.03
Mechanical Engineers	2,790	\$ 44.88
Industrial Engineers	1,520	\$ 44.86
6. Architecture & Construction	7,735	\$ 28.75
7. Energy	7,320	\$ 30.92
8. Finance	7,090	\$ 30.34
9. Information Technology	5,235	\$ 39.20
10. Transportation, Distribution & Logistics	8,470	\$ 20.85
11. Human Services	8,500	\$ 14.06
12. Education & Training	5,520	\$ 26.62
13. Hospitality & Tourism	7,155	\$ 13.15
14. Law, Public Safety, Corrections & Security	2,565	\$ 27.98
15. Arts, Audio/Video Technology & Communications	2,425	\$ 26.38
16. Government & Public Administration	610	\$ 26.73
17. Agriculture, Food & Natural Resources	980	\$ 19.03

This list ranks occupational clusters on a favorable mix of projected annual job openings and regional median wages. It does not necessarily reflect current hiring demand. The five occupations with the highest median wage were also highlighted for the highest-ranking clusters. Some ties may have occurred in the ranking process.



STATE OF MICHIGAN
Department of Technology, Management and Budget
Bureau of Labor Market Information and Strategic Initiatives

From: [Diane Owen-Rogers](#)
To: [Kathy M Olsen](#)
Subject: MiSTEM info for CEAC Meeting March 20
Date: Thursday, March 9, 2023 10:59:41 AM
Attachments: [image001.png](#)

Kathy,

I will not be able to attend the next CEAC meeting on March 20. However, I would like to share an important professional learning opportunity that will be of interest to CTE staff.

AMPED and GIC Workshop Sponsored by the MiSTEM Network Math Action Area:

Are you looking for hands-on, engaging, and project-based learning content to teach Algebra 1 and/or Geometry? The MiSTEM Network is providing 32 scholarships for the Algebra in Manufacturing Processes, Entrepreneurship & Design (AMPED) Workshop and 32 scholarships for the Geometry in Construction (GIC) Workshop for summer 2023 cohort training. Training will take place June 26 - 29, 2023 in Sault Ste. Marie, MI. [See this link](#) for more information and to apply.

Thank you so much,

Diane

Diane Owen-Rogers, Ph.D.
she/her/hers ([what's this?](#))
Program Administrator
Southwest MiSTEM Regional Director
Anti-Bias Anti-Racism Leadership Team Co-Leader

Kalamazoo Regional Educational Service Agency

Tel: 269.250.9224 | Fax: 269.250.9211

www.kresa.org



Services provided through a MiSTEM grant awarded by the Michigan Department of Education

CEAC METRICS

7-1-2022 through 6-30-2023

APPRENTICESHIPS

Information Sessions

- Apprenticeship 1.0 – An introductory course to gain insight into the creation of a USDOL registered apprenticeship program and learn about funding that may be available to employers.
 - List dates (if any) from July 1, 2022 to Aug 16, 2022
 - August 16, 2022 from 10:30 am – 12:00 p.m.
 - Nov 22, 2022 from 10:30 am – 12:00 p.m.
 - List dates (if any) from Nov 22, 2022 to Jude 30, 2023
- Apprenticeship 2.0 - A deeper dive into apprenticeships with more in-depth conversation about new standards and the RAPIDS system.
 - List Dates (if any) from July 1, 2022 to Sept 20, 2022
 - September 20, 2022 from 10:30 a.m. – 12:00 p.m.
 - December 13, 2022 from 10:30 a.m. – 12:00 p.m.
 - List dates (if any) from Dec 13, 2022 to Jude 30, 2023

New Registered Apprenticeship Programs –

- Branch County
 - List
- Calhoun County
 - Current apprenticeships include three machinists, five vet techs, six electricians, and five finish carpenters with the technical training covered by the post-secondary partner and CISD providing the soft skills training. CISD also holds the technical standards for the apprenticeships. The pilot is operating with 6-7 students working with the current system and not as a separate classroom. This model is not dependent on a specific business partner.
- Kalamazoo County
 - List
- St. Joseph County
 - List

State Apprenticeship Expansion (SAE) Grant

- List

Apprenticeship Awareness Events

11/1/2022 – Kalamazoo RESA and Workforce Development Institute hosted an online event that was intended for educators, counselors, teachers and community organizations who were interested in apprenticeship programs, but do not know where to start. (Also listed under Career Awareness events listed under Kalamazoo County.)

Information shared included:

- An overview on Pre-Apprenticeships and Apprenticeships
- How to present apprenticeships as an option for post-secondary training opportunities
- Pre-apprenticeships tied to Work-Based Learning/Internships – including a presentation by youth IT apprentices
- How to help prepare a student for an apprenticeship
- Tips to help students prepare for apprenticeships
- Ideas for promoting local opportunities to students and parents
- Presentation by a regional training provider
- Upcoming events during National Apprenticeship Week (November 14 – 18, 2022)

- Resource guide

11/7/2022 – Kalamazoo RESA held a second Apprenticeship Awareness event for student, families and community members, The event included an overview of pre apprenticeships and apprenticeships. After the main presentation, participants visited breakout rooms of their choice where individuals learned about specific pre apprenticeships and apprenticeships. The participants then had the opportunity to connect directly with established apprenticeship training programs.

11/21/2022 – Virtual session with overview of local opportunities for in and out of school apprenticeships and training. (Also listed under Career Awareness events listed under Kalamazoo County.)

Southwest MiSTEM

Middle School Programming and Trades Careers

Southwest MiSTEM joined an innovative program called MI-Trade, based on the CACTUS program from Arizona. This [video](#) of the Arizona project is what the local program will be based on. Pictures from the Arizona project can be viewed on [this website](#). The purpose of the MI-Trade program is to expose students to careers in the construction trades as well as support students as they build foundational Science, Technology, Engineering, and Mathematics (STEM) knowledge. Through the MI-Trade program, youth engaged in various construction trades as they learn middle grades mathematics and create a cooling doghouse. This program was offered during the summer as part of district provided summer programming. SW MiSTEM staff worked with two school districts/classrooms of up to twenty students each to pilot the MI-Trade program in summer 2022 for either incoming seventh graders or incoming eighth graders. The MI Trades Program was launched by Southwest MiSTEM in the spring of 2022 and two pilot sessions, one in Hastings and one at Kalamazoo Public Schools, took place during the summer of 2022. The program is a way to bridge middle school students to construction trades career paths. The program connects SEL, trades skills and knowledge, and mathematics. The. An article regarding the Hastings Middle School MI Trades Program can be accessed at <https://mea.org/donations-jumpstart-program/>. An article regarding the Kalamazoo Public Schools MI Trades Program can be accessed at https://www.kalamazoopublicschools.com/cms/lib/MI50000600/Centricity/Domain/60/Excelsior_Sep22_web.pdf. Both programs benefitted from donations and/or auctioned projects to raise funds. Southwest MiSTEM is seeking additional partners and speakers so that the program can be expanded into additional schools in the summer of 2023.

MiSTEM Professional Development

- **Computer Science Professional Learning Network** - Southwest MiSTEM network launched a Computer Science Professional Learning Network (CS PLN) in early 2022. The CS PLN met virtually as a pilot on February 17, March 17, and April 21, 2022 from 4:00 – 5:00 p.m. each month. Invited guest speakers from industry shared information from the field of computer science so educators could increase their knowledge. The sessions also included time for resource sharing and networking across the SW MiSTEM Region.
- **Summer 2022 Professional Development Programming** - Several professional learning options were offered during the summer of 2022. Programming was connected to computer science, foundational mathematics, STEM modeling, science instruction, and equity. Some of the professional development opportunities were offered prior to July 1, 2022 and those were listed on last year's annual CEAC report.
 - **Math Recovery** - The MiSTEM Network sponsored 200 scholarships for Math Recovery virtual professional learning sessions summer 2022 for cohorts of AVMR 1, AVMR 2, and AVMR Fractions. The MiSTEM Network brought educators a professional learning series to meaningfully connect students' knowledge, formative assessment pedagogy, understanding of students' learning of early mathematics, and instructional moves. These workshops will equip educators with the ability to implement Math Recovery as a Tier 1 and Tier 2 system of support for K-5 learners. Educators will receive a FREE kit with assessment tools, frameworks, an instructional book, math manipulatives, and more. Sessions were scheduled during the months of June, July and August

- **Code.org Professional Learning** - MiSTEM provided Code.org professional learning with a \$2,500 scholarship to cover the cost. Offerings were scheduled over the summer and throughout the school year. This was an opportunity to support students to learn about computer science as they get ready for their future careers. More information on the [Michigan Code.org website](#).
- **Modeling** - [Check these videos to learn more](#). Modeling is an instructional strategy that engages students in active learning through exploring phenomena, creating diagrams, and communicating concepts. MiSTEM is offering various workshops for STEM teachers to engage in a series of professional learning sessions. Modeling Workshop for Southwest Michigan - Mi-STAR for 6th and 7th Grade was held from July 11 – July 29, 2022 from 8:00 a.m. – 4:00 p.m. in Muskegon, Michigan.

CAREER EXPLORATION EVENTS

The CEAC, and its members, actively promoted numerous career pathway and exploration activities and events throughout the four-county Michigan Works! Southwest area, over the past year. The events, reported by CEAC members, are listed below.

National Apprenticeship Week - Nov 14-18, 2022

The following events were held in the MW! Southwest service area during the 2022 National Apprenticeship Week. [\[list locations and details\]](#)

Manufacturing Day – Oct 7, 2022 / Manufacturing Week

The following events were held in the MW! Southwest service area to celebrate the 2022 Manufacturing Day/Week [\[list locations and details\]](#). Some of these events are also listed under the County Career Exploration events.

- Branch County -
- Calhoun County – Manufacturing Day Battle Creek was held October 14 and 15, 2022 at the Kellogg Community College (KCC) Regional Manufacturing Center (RMTc) in Battle Creek, Michigan. Participating employers included DENSO, Duncan Aviation, Kellogg's, Rosler, Snackwerks, and Vanguard Fire and Security Systems. Participating partners included Kellogg Community College Industrial Trades, Battle Creek Unlimited, BC Manufacturing Consortium and Kalamazoo RESA/YOU. In total, 671 tenth, eleventh, and twelfth graders from area high schools, including Battle Creek Public Schools, Bellevue Schools, Calhoun Community Schools, Harper Creek Community Schools, Lakeview Schools, Pennfield Schools, and Michigan Youth Challenge Academy, participated in the event. (Source document: Manufacturing Day Report)
- Calhoun County - students are also participating in Manufacturing Day events. On October 19, 2022, in Battle Creek, a celebration of Manufacturing Day concluded. Michigan Works! Southwest worked closely with Battle Creek Unlimited and Kellogg Community College to hold industry tours with nine local employers. This included employers showcasing equipment onsite at the Regional Manufacturing Technology Center (RMTc), as well as a few employers opening their facilities for students to visit in-person. Approximately 640 students in grades 9 through 12 participated over the course of two days.
- Kalamazoo County – Stryker Manufacturing Day – A total of 124 students from Kalamazoo County attended.
- St. Joseph County - four days of activities were planned at 4 to 5 employer locations in the St. Joseph County area. (reported at CEAC)

MiCareerQuest™ Southwest

Michigan Works! Southwest takes pride in preparing the future workforce for local careers. One way this is done is through career exploratory events, such as MiCareerQuest™ Southwest.

- **October 25-26, 2022** - The event was held at the Kalamazoo Expo Center. Eighth graders from Kalamazoo and Calhoun Counties were able to experience an interactive, hands-on, informational, and inspiring career and college readiness event unlike any other career event. During this unique experience, students explored careers – direct from the professionals who perform these jobs every day. The format is like the one held in the spring, with there being six pathways including an outdoor event called ‘Touch a Truck’. Staff are grateful that participation from employers continues to be at a high level and that there are champion employers, including Bronson and Stryker. These companies are making large staff time commitments to support the event. On October 25, a total of 4,467 eighth grade students from Kalamazoo, Calhoun, Cass and Allegan Counties attended this interactive, fun, and exciting career investigation event specifically designed from 8th grade students across Southwest Michigan. Employers from industry areas such as Engineering & Manufacturing, Health Sciences, Natural Sciences, Construction Trades, and Information Technology worked together to brainstorm and produce exciting exhibits within approximately 50,000 square feet of exhibit space within the Kalamazoo County Expo Center. Imagine CNC machines, CPR dummies, robots, surgical saws, and bricklayers – all up close and personal with not a “Don’t Touch!” sign in sight. The event included an outdoor space called “Touch a Truck” where students were invited to explore big equipment used in a variety of ways including a food truck, a police cruiser, a tractor and MDOT displaying their road repair equipment.
 - Over 40 local employers
 - 75 career exploration booths
 - Approximately 4,467 students participated during the two-day event
 - Approximately 37 schools participated
- **May 9, 2023** – MiCareerQuest™ event to be held at the Doyle Center in Sturgis, Michigan for all 9th grade students in St. Joseph County for approximately 812 students.

Youth Opportunities Unlimited/KRESA - Talent Tours

Talent Tours introduce young adults to available career paths by offering a behind-the-scenes look into in-demand businesses and industries. Talent Tours provide real-time information regarding employer, education, and training requirements necessary to secure employment. The following employers were partnered with this year:

- List Location and (date)
- List Location and (date)
- List Location and (date)
- List Location and (date)

Branch County

- 9/23/22 – Education Professions students attended “Teacher by Trine” event at Trine University
- 10/6/22 – Auto Technologies and Auto Body & Custom Paint students toured the Gilmore Car Museum
- 10/11/22 – Culinary students attended a ProStart Symposium in Detroit, MI
- 10/20/2022 – 9th Grade Career Day - Branch Area Career Center hosted a career day for 9th-grade students. This event was held at the Dearth Community Center, and it featured over forty (40) career paths showcased by local employers. Approximately five hundred (500) freshmen participated in hands-on exhibits.
- 10/27/22 – BMMT student attended “Shark Week” event at Davenport College
- 11/8/2022 - Students in 10th grade visited the Branch Area Career Center. Each student visited two programs. A few of the presenters were students who are currently or formerly enrolled.
- 10/20/2022 – CTE culinary students participated in a global cuisine event in Branch County to help cultivate awareness of the changing demographics in Branch County.
- 11/5/2022 - the Branch County Career Center will be celebrating 50 years of promoting careers. The event will be held from 10:00 a.m. to 2:00 p.m. and includes a free lunch, as well as some planned activities.

- 11/10/22 – Health Science student took a college visit to Trine University
- 11/16/22 – Education Professions students took a college visit to Central Michigan University
- 12/2/2022 – WMU Innovation Expo <https://wmich.edu/ieem/innovationexpo> - STEM Competition – The event is open to teams from all over Michigan that are made up of “kids as young as kindergarten, and up through college -aged. The teams, mostly from the Kalamazoo area, presented various products and prototypes that they had developed to judges and other competitors.
 - Coldwater high school students took 3rd place. UV-Clean with team members Steven Covell and Liam Vanwagner. Per WWMT: “took third place in the judge's competition for UV Clean, a handle that keeps itself clear for 24 hours using ultraviolet light.”
 - In summary, for the 2022 event, 9 school participated, 348 students pitched, and 148 teams competed.
- 4/8/23 - 8th Grade students visit programs at the Branch Area Careers Center
- [Date] – Branch County Spring Hiring Blitz for adults and local student that attend the Branch Area Career Center. Partners included Branch Area Career Center, Kellogg Community College, and the Coldwater Chamber of Commerce. Classrooms of students from the Branch Area Career Center over to the event to interact with employers and learn more about local companies.
- May – Branch County 6th Grade Kids Consider College and Careers event
- Spring – Branch County College Day

Calhoun County

- 9/23/2022 - Military and Public Services Career Day. Twenty-four (24) organizations representing organizations such as college ROTC, healthcare, DHHS, MDOT, the military and MI State Police participated. The event was held in an expo style format and included introducing the students to some large equipment. Students were prepped to ask questions and were given opportunities to cycle through and interact with businesses. (752 students)
- [date] - KCC and Marshall Public Schools will hold another event targeted to middle school students at RMTC. The students will also visit a couple of manufacturing sites in the Fort Custer area. (reported at CEAC on Sept 19, 2022)
- 10/14 & 10/15/2022 – Manufacturing Day Battle Creek – see details reported above under “Career Exploration Events-Manufacturing Day”.
- 10/19/22 – Manufacturing Days in Calhoun County concluded – see details reported above under “Career Exploration Events – Manufacturing Day”.
- 10/2022 – College Day (823 students)
- 10/25-26/2022 – MiCareerQuest™ - see details above under the heading ‘MiCareerQuest™ events’.
- 11/2022 - Tenth grade pre-visits to Career Center (900 students)
- 12/6/2022 – Albion/Marshall Career Day - Ninth, tenth and eleventh graders, totaling 102 students, from Marshall High School, Marshall Opportunity High School, and Marshall Academy participated. In a Career Day on December 6, 2022 at the Eastern Academic Center in Albion, Michigan. Participating employers and partners included Life Care EMS, Kellogg Community College, Choose Marshall, and Kalamazoo RESA Youth Opportunities Unlimited. Students had the opportunity to explore the emergency medical services career pathway and experience hands-on learning. Additionally, students met with Kalamazoo RESA Youth Opportunities Unlimited regarding work based learning opportunities, as well as with Kellogg Community College admissions regarding dual enrollment and early college programming. (Source: Career Day Report)
- 1/2023 – Career Connection Day (845 students)
- 2/2023 - 10th Grade Career Center Visits (1,500 students)
- 2/2023 – Career Technical Education Showcase (650 students)
- 3/14/2023 – Sophomore Future Track - Students explored possible career pathways and engaged with the local business community. The students had opportunities to experience hands-on career explorations at local businesses or organizations.

- 4/2023 - Interview Day (Local employers conduct actual interviews) (250 students)
- 5/2023 – Eighth Grade Visits to Career Center – (2,500 students)

Kalamazoo County

- 7/1/2022 – Industry Tour at Airway Fun Center. Bridging students attend an all-aspects tour.
- 7/8/2022 – Industry Tour at K-Wings Event Center. Bridging students attend an all-aspects tour.
- 7/15/2022 – Industry Tour at K-Wings Event Center. Bridging students attend an all-aspects tour.
- 9/16/2022 – A very Smart(ies) Budget Activity – Personal Finance/Budgeting presentation that engages middle school students in a hands-on budgeting activity making connections between career, future goals, and lifestyle costs.
- 9/30/2022 – Alumni Career Fair at Schoolcraft High School. A total of 124 students from Kalamazoo County attended.
- 9/30/2022 – Groundbreaking for Kalamazoo RES Career Center
- 10/13/2022 – Industry Tour – Stryker Manufacturing Day. A total of 124 students from Kalamazoo County attended.
- 10/19/2022 – Parchment Career Week – Presentations to middle school and high school regarding career awareness and exploration of different career opportunities.
- 10/21/2022 – All Portage elementary students and their families were invited to an all-Portage STEAM night at the Air Zoo on Friday, October 21, 2022, from 3:00-8:000 p.m. to explore over 50 Hands-On Exhibits provided by local companies and educational institutions designed to spark a passion and excitement for STEAM (Science, Technology, Engineering, Arts, and Mathematics) in young students. The students were invited to explore, dream, and experiment with talented and inspirational local scientists, mathematicians, artists, engineers, and technology experts. As a result of generous donations from many local sponsors including Air Zoo, Portage Education Foundation, and all of the exhibitors, there was NO COST to attend. Students were required to be accompanied by a parent or guardian as this was an after-school hours event. This was the second of what is to be an annual event. Holding it annually was delayed due to COVID. Over xxxx attended the 2022 fall event. This exceeded the attendance of over 3,100 individuals who attended the inaugural event. Website <https://www.portageeducationfoundation.org/steam.html>
- 10/25-26/2022 – MiCareerQuest™ - see details above under the heading 'MiCareerQuest™ events'. Of the 4,467 total attendees of eighth grade students over the two-day event, students from KRESA school districts included 1,789 on the first day and 851 on the second day.
- 11/1/2022 – National Apprenticeship Week Awareness event – virtual session with overview of local opportunities for in and out of school apprenticeships and trainings. See Apprenticeship Awareness events above for further details.
- 11/8/2022 – Industry Tour at Eagle Auto Parts. A total of 27 students from Kalamazoo County attended.
- 11/21/2022 - National Apprenticeship Week Awareness event – virtual session with overview of local opportunities for in and out of school apprenticeships and trainings. See Apprenticeship Awareness events above for further details.
- 12/1/2022 – Family Arts Night featuring Careers in the Arts at Schoolcraft Elementary School. Four hundred and thirty (430) students and families attended this 2-hour event at Schoolcraft Elementary featuring 10 careers in art. Careers included architect, costume designer, culinary artist, florist, illustrator, interior designer, jeweler, muralist, tattoo artist, and film director/actor. Each career station had a hands-on activity for students to complete with their family.
- 12/2/2022 - Kalamazoo RESA's Education for the Arts (EFA) department, and Career and Technical Education (CTE) Art and Design Skills will be participating at the Kalamazoo Art Hop. Seventeen (17) high school students in the EFA Visual Arts and CTE Art and Design Skills classes were selected for the Kalamazoo Valley Community College's first annual high school art competition. The location for the students' exhibit is at the KVCC Center for New Media Arcus Gallery (100 E. Michigan) 5:30-8pm.

- 12/2/2022 – Kalamazoo RESA's Service Center hosted an IT Industry Tour for students interested in pursuing Information Technology as a career to learn help them learn more about their career options directly from people already working in the field. It was a great success! There were 22 students and 5 chaperones who attended, which included students and staff from the CTE Information Technology class, as well as KRESA's Young Adult Program (YAP), YOU (Kalamazoo RESA), and Michigan Works! Southwest. The rotations were: Tech Area/Help Desk, Systems Administration, Network, and Programming. Every student found things they enjoyed. One student commented that the tour gave him clarity on programming vs. network engineering.
- 12/2/2022 – WMU Innovation Expo <https://wmich.edu/ieem/innovationexpo> - STEM Competition – The event is open to teams from all over Michigan that are made up of “kids as young as kindergarten, and up through college -aged. **The teams, mostly from the Kalamazoo area**, presented various products and prototypes that they had developed to judges and other competitors.
 - Vicksburg high school students took 1st and 2nd place. SNAP 2 IT (1st) with team members Autumn Houts and Reed Tassell; The Wishbone (2nd Place) with team members Justin Plankenhorn, Tyler Fenwick, Sklyler Eyre, Patrick Russon and Lane Leach.
 - In summary, for the 2022 event, 9 school participated, 348 students pitched, and 148 teams competed.
- 12/6/2022 – My City Two Gen Financial Literacy Workshop - This workshop focused on personal finance for both adults and students. A special breakout session for students included a budgeting reality fair connecting their career choice with lifestyle costs and decisions, as well as a lesson on credit and credit scores.
- 12/8/2022 – Science is cool - Will Haenni WWMT visited the Comstock Public Schools STEM Academy earlier today to speak about meteorology. Will has been on the WWMT team since 2018.
- 12/16/2022 - Students in KRESA's Career & Technical Education (CTE) Marketing, Accounting, and Business Management and Administration (BMA) classes took part in the Junior Achievement (JA) Titan Business Challenge at Western Michigan University. The event features high school teams from around the region who go head-to-head to compete in running a computer simulated corporation. During the competition, each team acts as the Senior Management Team of their company and is responsible for developing business strategies and making “do or die” decisions quarter by quarter. The competition is uniquely designed to unleash creativity, test leadership skills, and demonstrate the competitive nature of the free enterprise system. First Place Team: JA Morant, Vicksburg High School; Second Place Team: The Bad Assets, Portage Northern High School; and Third Place Team: JCS, Schoolcraft High School.
- 2/1/2023 – Preschool STEAM Days at the Air Zoo – “Designed to give young children and their adult chaperones a taste of science, technology, engineering, art, and math (STEAM).” The event included fun, hands-on, interactive activities that hopefully left the young scientists with wanting to explore even more at home.
- 2/7/2023 – KRESA High School Classes & Programs Open House at Air Zoo from 5:30-7:30 pm
- 3/1/2022 – Healthcare Month – KRESA is planning industry tours and career awareness events.
- 4/14/2022 – District Pitch Events – Students prepare with mentors for WMU's Bronco Pitch.
- 4/14/2022 – WMU Bronco Pitch – Students will attend Bronco Pitch and present their pitch to community judges for prizes.
- 5/1/2022 – Reality Fairs – KRESA will be focusing on Financial Awareness in relation to career choice. Several sessions to be held this month.
- 5/1/2022 – Construction Trades Month – KRESA is planning to hold industry tours and career awareness events.
- Spring-Summer 2023 – Lemonade Days – Students created their own businesses through in-school and community partnerships.

St. Joseph County

- 2/2023 - CTE sophomore exploration days during the month of February for the whole county. These will take place in February over the course of the month.

- **Spring 2023** – Career Exploratory Event at Sturgis High School. Employers were able to highlight what they do through hands-on activities.
- 5/9/2023 – MiCareerQuest™ event held at the Doyle Center in Sturgis, Michigan for all 9th grade students in St. Joseph County for approximately 812 students. See additional details above, under the heading ‘MiCareerQuest™ events’.
- **Spring 2023** – Area hiring event at Glen Oaks Community College.

ADULT EDUCATION AND LITERACY

Adult Education and Literacy Activities are available through the education partnerships, as well as with county level literacy councils. Adult education, high school completion and GED prep services are available through the following partners: **Update this section for the 2022-2023 Program Year.**

- Battle Creek Public Schools – multiple sites
- Branch Intermediate School District – Coldwater
 - Coldwater High School
 - Lincoln Learning Center
- Comstock Public Schools Adult Education
- GED® Testing Service – multiple sites
- Kalamazoo Public Schools – multiple sites
- St. Joseph County Public Schools
 - Centreville Public Schools - Community Education
 - Sturgis Public Schools
 - Three Rivers - Barrows Adult Education

CEAC MINUTES

CEAC Minutes for Program Year July 1, 2022 through June 30, 2023 are attached.

CONCLUSION

With the guidance and assistance of the Career Educational Advisory Council (CEAC), Michigan Works! Southwest will continue to keep career pathways at the forefront with educators for all age groups.