

Name of Lead Institution (only one)	Central State University
Project Start Date	4/1/14
Interns and/or Co-ops Start Date	May-14
Primary Contact - Individual must be authorized to sign grant contract and legally responsible as representative.	Cynthia Jackson-Hammond
President/CEO Name	Cynthia Jackson-Hammond
Project Director/s	Ms. Lowan Pritchett-Pitt, Director, Career Services, lpritchett-pitt@centralstate.edu, 937.376.6493 and Morakinyo Kuti, Director, Sponsored Programs and Research, mkuti@centralstate.edu, 937.376.6547
Are any of the applicants represented by a member of the Advisory Committee? See list at https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/omi/2013-14_CEIA.pdf	No

1) Certification by Authorized Official:

To the best of my knowledge and belief, the information contained in this application is true and correct. The document has been duly authorized to comply with the required assurances.

Signature of Authorized Official

Cynthia Jackson-Hammond

Date

4/18/13

2) Administering Entity:

Central State University

P.O. Box 1004

Wilberforce, Ohio 45384

3) Business Partners (please submit separate information for each partner)

Company Name: MillerCoors Trenton Brewery

Contact Person: Kevin Dahmer

Title: Acting HR Manager

Address: 2525 Wayne Madison Road, Trenton, Ohio 45067

Email

4) Educational Partners (please submit separate information for each partner)

Institution Name: Wilberforce University

Contact Person: Dr. Edward Asikele

Title: Dean of Research and Sponsored Programs

Address Wilberforce University

Email: easikeke@wilberforce.edu

5) Other Partners (please submit separate information for each partner)

Institution Name: Dayton Development Coalition

Contact Person: Jeff Hoagland

Title: President and CEO

Address: 40 N. Main Street, Suite 900, Dayton, Ohio 45423

Email: jhoagland@daytonregion.com

Program Snapshot	Name, Number or Amount
JobsOhio key industry/ies –	Advanced Manufacturing, Agribusiness & Food
JobsOhio region:	Western Region
Amount of state money requested	\$ 301,752
Required match money committed (100% undergrad & 150% grad programs)	\$ 328,800
Total state money requested divided by number of co-ops or internships created (in whole dollars)	\$ 6,287
Total match money obtained divided by number of co-ops/internships created (in whole dollars)	\$ 6,850
Total money (state plus match) divided by number of co-ops/internships created (in whole dollars)	\$ 13,137
Number of business partners	4
Number of education partners	3
Number of other partners	5

Add numeric value to each field below

	<u>TOTAL</u>	<u>Wages</u>	<u>Scholarships</u>	<u>Both wages & scholarships</u>	<u>For credit</u>	<u>Not for credit</u>	<u>Required</u>	<u>Optional</u>
<u>Internships created (proposed)</u>	48	199600	50000	249600	10	38	10	0
<u>Co-ops created (proposed)</u>	0	0	0	0	0	0	0	0
TOTALS	48	199600	50000	249600	10	38	10	0

Abstract

The goal of the Ohio Means Internships and Co-ops - Knowledge, Skills and Disposition for the Future Workforce (OMIC-KSDFW) proposal is to expand, enhance, and institutionalize experiential education, specifically internship and co-operative activities at Central State and Wilberforce Universities.

In order to achieve this goal, we have identified the following objectives:

1. Revision and enhancement of courses within the Manufacturing Engineering Department and related areas to align them with the skills necessary in the Advanced Manufacturing, Automotive, Aerospace and Aviation, Agribusiness & Food processing, and Energy industries.
2. Expansion of relationships with regional economic stakeholders including business development agencies, private business, local governments, and other educational institutions.
3. Centralization and standardization of experiential education management and assessment across the entire CSU campus.
4. Placement of at least 48 students on internships and co-operative education in private industry between May 2014 and June 2016.
5. Provide training to enhance leadership and soft skills of students.

The OMIC-KSDFW program is aligned with the University's six compelling priorities: 1.) Quality collegiate/academic experience; 2.) Targeted student enrollment; 3.) Reduced time to degree; 4.) Higher retention rates; 5.) Development of graduates with the knowledge, skills, and disposition for professional careers or advanced studies; and 6.) Efficient and effective institutional operations.

The OMIC-KSDFW program brings together a team including Ohio's two historically black universities, a community college, a technical career center, private business, and nongovernmental entities. The partnership includes the Dayton Development Coalition, the Dayton Area Chamber of Commerce, Miami Valley Research Park, MillerCoors, Key Bank, Riverside Research, TDL Tool Inc., Air Force Institute of Technology, Sinclair Community College and the Greene County Career Center. OMIC-KSDFW focuses on JobsOhio industries of **Advanced Manufacturing, Agribusiness & Food Processing, Automotive, Biohealth, Energy, Financial Services and Information Services & Software**. The expansion and institutionalization of internships and cooperative education will diversify the workforce in these growing industries in Ohio. Department of Labor Statistics (www.dol.gov) indicate that in 2012, minorities only held the following percentages in Advanced Manufacturing (4%), Agribusiness and Food Processing (0.8%); Biohealth (less than 0.01%), Energy (less than 0.01%), Financial Services (9.1%), Information Services and Software (7.4%).¹

¹ U.S. Department of Labor, Labor Force Statistics from Current Population, Employed persons by detailed occupation, sex, race 2012

Partnerships with Private Companies

OMIC-KSDFW will enhance relationships with the Dayton region's economic players to proactively respond to emerging workforce needs of Ohio but particularly the Dayton Region. Our partners include:

- The Dayton Development Coalition (DDC) whose mission is “to continue the growth of the Dayton Region, focusing on expanding the awareness of our aerospace & defense initiatives, supporting commercialization efforts in leading industries, and continuing business recruitment efforts in concert with each other” (see attached letter of support).
- The Dayton Chamber of Commerce (DACC), an organization of nearly 3,000 companies, is working to foster growth in the Dayton regional economy. DACC “provides several tactical programs and products to meet employers' needs and acts as the business community's advocate in the shaping and implementation of the region's strategic workforce initiatives” including providing; Employee Recruitment; the Job Center; Internships; Pre-employment Services; Scholarships; Statistics and Demographics and Training Programs (see attached letter of support).
- CSU's Career Services will offer two major career fairs per academic year to bring students and employers together in pursuit of permanent employment, internships and co-ops. Additionally, there will be corporate days where individual businesses will be invited to campus to present and interview students for internships, co-ops and employment.
- CSU will develop a “Business Cluster” consisting of businesses who agree, on an ongoing basis, to partner with CSU's student leadership development program in preparing students for the job market. The cluster will provide workshops (highlighting soft skills), shadowing or any other means which will assist in the effort to prepare students to enter the workforce.
- CSU's National Environmental Technology (NETI) Incubator provides a direct link between CSU's academic programs and local and regional businesses. The NETI has assisted over 30 startups from inception through profitability, increased funding by six (6) million in revenue to fund incubation through commercialization technology transfer activities which have resulted in over 100 high technology jobs in the region. In 2013, NETI engaged our Oil and Gas Industry partners to support a National Science Foundation grant to develop industry specific workforce development information into existing geosciences curriculum to create an “Oil and Gas” certification degree.
- The Industrial Advisory Council (IAC) of the Manufacturing Engineering Department consists of external experts including business / industry executives. The IAC advises students regarding their classroom and field experiences by providing mentoring and “real world” advice regarding advances and challenges in the manufacturing industry (see attached list of members).
- The Business Advisory Council is a group of representatives from business and industry established to help bridge the gap between the College of Business and the private sector (see attached list of members). Through its member corporations and other company contacts, the BAC provides relevant work experience for students.
- MillerCoors, Riverside Research, Key Bank and TDL Tool Inc. have committed to hiring 38 CSU interns per year as part of the OMIC-KSDFW (see attached letters).
- OMIC-KSDFW will establish an Internship Advisory Committee (IAC). The IAC will include private businesses, regional economic development agencies and faculty and staff from both universities.

Relevancy of OMIC-KSDFW in Academic Curriculum

We will develop educational capacities in selected areas of engineering in the CSU Manufacturing Engineering Department (MFE) to enhance student skills to match industrial requirements of talents and to better prepare students for internships, co-ops and full time employment. This will provide a uniform learning experience to all MFE students. The selected engineering area is “automation and robotics”. The industries that will benefit from the availability of well-prepared students include:

1. Advanced Manufacturing
2. Aerospace and Aviation
3. Agribusiness & food processing
4. Automotive
5. Energy

OMIC-KSDFW will enable the integration of robotic workstations in selected courses to provide uniform and broad experiences to all MFE majors and other interested students to address the growing industrial needs for skilled and well trained students and employees. The areas of the curriculum targeted for enhancement through the infusion of additional equipment and newly designed hands-on laboratory learning experiences are:

1. Programmable logic controllers
2. Machine vision
3. Robotics and automation
4. Instrumentation

Wilberforce University has partnered with Riverside Research and they are collaboratively offering an Advanced Technical Intelligence (ATI) Bachelor of Science program. OMIC-KSDFW will foster the WU internship initiative in an effort to give students on the job training in the Intelligence career field as a significant portion of Riverside’s contracts stem from the Aerospace and Aviation network.

OMIC-KSDFW will enhance the Co-op education within the College of Business by exposing students to professional expertise in career fields. We will invite leading business leaders to hold seminars, workshops, a networking event as well as interactive business exercises that will captivate, educate and open opportunities.

Training facilities and capabilities at Sinclair include the Advanced Integrated Manufacturing Center and Automation and Controls Technology with Robotics program which are critical in advanced manufacturing. Sinclair will collaborate with OMIC-KSDFW in the following areas: developing a pipeline for students graduating with associate degrees from Sinclair to Central State in the areas of manufacturing engineering, computer science, and environmental engineering; developing appropriate training programs for students at Sinclair and Central State in preparing for engaging in internships and; developing joint partnerships to work with area industries in the fields of manufacturing engineering, computer science, and environmental engineering.

Greene County Career Center (GCCC) has a wealth of experience in placing students in the industries from the area and the Dayton Region. Training facilities and capabilities at GCCC includes a training facility for engineering, welding, a greenhouse suitable for landscape studies

and an information technology laboratory. GCCC will assist OMIC-KSDFW by : developing a pipe line for students graduating from GCCC to CSU in the areas of manufacturing engineering, computer science, natural sciences and environmental engineering; developing appropriate training programs for students at GCCC and CSU in preparing for engaging in internships; developing joint partnerships to work with area industries in the fields of biotechnology, manufacturing engineering, computer science and environmental engineering and developing programs to place GCCC students in internships in the area facilities of industrial partners through the internship manager for the proposed project at CSU.

OMIC-KSDFW Integration and Role in Southwest Ohio Economic Development

DDC, the organization designated by the state to represent 14 counties surrounding Dayton is a strong supporter of the OMIC-KSDFW proposal. Dr. Cynthia Jackson-Hammond, CSU's president, is a member of the Coalition's board where she plays an important role in the implementation of DDC's strategic plan. CSU, Ohio's only public HBCU has a strong STEM program critical to diversifying the workforce. Of the total bachelor degrees awarded in the following programs to African Americans by Ohio's public universities, CSU awards these percentages: industrial technology (10%); manufacturing engineering (16%); mathematics (28%); biology (4%); and physical sciences (8%). CSU has graduated 247 Business and Finance majors, 28 Mathematics and Computer science majors and 14 Manufacturing Engineering majors over the last three years. At least 43 of these majors successfully completed an internship experience. The OMIC-KSDFW goal of enhancing and expanding CSU's capacity to provide internships and co-operative experiences complements DDC's goal of expanding the awareness of the region's aerospace and defense initiatives, commercialization efforts in leading industries, and business recruitment.

The Miami Valley Research Park Foundation is a partner in the OMIC-KSDFW. The park's mission is: to foster and promote research, technological, scientific and educational activities; to create or preserve jobs and employment opportunities and; to improve the economic welfare of the metropolitan Dayton area. The Park will provide free office space for OMIC-KSDFW to network with the 40 organizations located within the park (see attached letter of support). The world-class research park has recruited research and advanced technology enterprises from business, industry and government.

OMIC-KSDFW complements the Dayton Area of Chamber of Commerce's workforce development initiative. The workforce is "providing connections between students, educational providers and employers through internships, apprenticeships and co-ops" (see attached letter of support).

The City of Xenia and CSU are in the process of establishing a joint economic district to enlarge economic development in the Xenia Township. A robust internships and co-operative education experiences at CSU will increase the diversity of the Xenia area workforce (see attached letter of support).

CSU is well positioned in the areas of nano composites manufacturing; applications of human performance and sensor applications; energy technologies; and environmental engineering aspects of shale development due to faculty expertise. South West Region of Ohio in particular is experiencing growth in these fields. CSU's College of Science and Engineering has been recognized by the State of Ohio as a Center of Excellence in Emerging Technologies. In composites manufacturing, CSU works closely with the University of Dayton and University of

Dayton Research Institute (UDRI) in placing graduates from the MFE in UD's materials science and engineering program to obtain graduate degrees. CSU is an integral member of the Institute for Development and Commercialization of Advanced Sensor Technology (IDCAST). IDCAST works with area companies engaged in sensor technology development for defense and civilian applications. CSU has a relationship with American Petroleum Institute (API), a trade organization that represents the oil and gas industry in a common effort to develop a regional capability in meeting workforce demands.

Assessment of Student Learning Outcomes

Currently internships and or co-ops are graded on a satisfactory (S)/unsatisfactory (U) basis. To enhance the experience of CSU students participating in internships, assessments of knowledge, skills and professional dispositions of the interns will be conducted by at three levels: (1) a self-assessment by the student prior to beginning the internship experience, (2) assessment of the student on application of knowledge and skills in the discipline by each university instructor of record for the internship courses, (3) assessment of the student on knowledge, professional skills and dispositions (soft skills) by the internship supervisor/employer during the internship and (4) assessment of the student's internship project presentation at the culmination of the internship. The students' progress in all four assessment areas will be monitored by a fulltime faculty member (preferably the student's academic advisor) and approved by the Department Chair. A satisfactory grade from the university instructor's will be required of every student participating in the internship.

Internship Supervisors/Employers will also submit intermittent reports about student's performance during the internship. An example of the Internship Assessment Tool which will be used by the student as a pre-internship Self-Assessment and by the Internship Supervisor or Employer as a post-internship assessment is enclosed (see Appendix 2). This assessment tool will be uploaded on the CampusLabs Assessment Module and sent electronically to the student and supervisor prior to the internship experience. Student interns will also be required to participate in a CSU Internship/research symposium at the end of each internship experience, where returning students deliver PowerPoint presentations to share outcomes of their internship experience.

To enhance improvement of the program and inform the University about critical elements needed during preparation of the students, a survey will be conducted to provide the university with feedback from student internship participants and Supervisors/Employers. The survey of the employers will help us determine areas needed to improve the education of our students to be able to prepare them appropriately for the workforce. The participating students survey will enable us determine students' learning on the job as well as determine the level of responsibility during the internship. We shall visit every work site to assess the success of the internship program and determine areas of improvement. Internship and Co-op experiences will be institutionalized to ensure that the experiences are more meaningful. The assessment process will be formalized so that students receive letter grades for their Internship and Co-op experiences based on evaluations by CSU faculty and Internship Supervisors/Employers, using a model similar to that of Messiah College (described later)

Integration of Academic Programs to Student Careers

Career Services will establish a protocol for internships/co-operative education. The Internship Manager and Faculty advisors will review the position description for each internship/co-

operative in relation to the individual student's career goals and develop outcome measures. Internships will be offered to students as part of required courses and as elective courses. The Internships may be eligible for credit in the courses below after faculty evaluate the job description. Co-operative experiences already receive academic credit. Credit hours received is listed in brackets after the name.

Computer Science Senior Project (3) — students work under the mentorship of a faculty member to design, implement and present a capstone computer science project.

Senior Project in Environmental Engineering (ENE) (2) — Graduating seniors integrate the knowledge gained in all ENE courses and apply in a field application project related to a topic of interest within the field.

Special Problems in ENE (3) — Individual study in advanced water resources management research. Students enrolled in internships in advanced work in environmental engineering industry will be able to adapt the applied work for this course.

Industrial Technology (INT) Senior Design Capstone I (2) — Extensive use of CAD/CAM/CAE packages to arrive at a design methodology for product design.

INT Senior Design Capstone II (2) — Emphasis is placed on Industrial Partners design and testing requirements to be determined at the start of each course.

MFE Senior Design Project I (1) — The first phase of the two-course, capstone design sequence to provide experience in the practical application of prior course work. Includes topic selection, selection of faculty advisor(s), literature search, conceptual design, development of a work plan, and arrangements to secure required resources.

MFE Undergraduate Research (1-3) — Research performed by an individual student or a small team of students. The research topic, work plan and number of credit hours are to be determined in advance by mutual agreement between the student and research advisor.

Power Plant Systems Operations (3) — Power plant studies, regulatory requirements, and integrated plant operations; brief overview of thermal and mechanical design aspects and economics of nuclear power plants and processes.

Senior Project in Water Resources Management (WRM) (2) — Graduating seniors integrate the knowledge gained in all WRM courses and apply in a field application project related to a topic of interest within the field.

Selected Topics in MFE (1-3) — Selected manufacturing engineering topics not normally available in the required major course

Computer Science Research (2-4) — State-of-the-art research opportunities beyond the scope of courses in the curriculum so advanced students may have experience with current industry standard methodologies in areas such as Cyber Security, Cloud Computing, Wide Area Networks, and others.

ENE Internship (3) — On the job training in agencies and/or companies engaged in activities related to environmental engineering/ water resources management.

WRM Internship (3) — On the job training in agencies and/or companies engaged in activities related to water resources management.

Internship in Management Information Systems (1-6) — Opportunity to explore practical experience in MIS.

Internship in Finance (1-6) — Opportunity to explore practical experience in finance.

SUSTAINABILITY

The initial OMIC-KSDFW project period will enable both universities to increase our capacities to create a self-funding internship and cooperative education program. The sustenance section below illustrates how each objective will be funded during the project period and post project period.

Post OMIC-KSDFW Funding

Objective 1: Revision of Manufacturing Engineering Courses to align them with emerging workforce needs.

Grant Period

The revision of the program will be funded by a donation from Dr. James Elam to the CSU foundation at a cost of \$120,000 for the first two years. Hardware, software and supplies will be acquired for the James Elam Robotics Laboratory.

Sustenance

Students will enroll in the revised courses as part of the regular academic schedule, thereby generating revenue to continue the courses. Increased student internships will lead to higher course completion, graduation and employment of students in industry.

Objective 2: Expansion of relationships with regional economic stakeholders including business development agencies, private business, local governments, and other educational institutions.

Grant Period

Appropriate university faculty and staff will meet with the regional economic stakeholders. The time for university staff except the Internship manager will be charged to university funds. The Miami Valley Research Park will provide space to CSU at no cost for outreach to park tenants. The Business Cluster partners will provide workshops and other services at their expense during the grant period and beyond

Sustenance

The Internship Manager will be paid with university funds after the project period.

Objective 3: Centralization and standardization of experiential education management and assessment across the entire CSU campus.

Grant Funds

The Internship Manager, a new FTE to be hired, see attached job description, will be responsible for coordination with CSU faculty, Career Services and employers to institutionalize the OMIC-KSDFW. Annual salary of \$45,000 plus fringe benefits.

Sustenance

The Internship Manager will be institutionalized on university funds after the program ends.

Acquisition of Data Management Infrastructure

Grant Funds

Software and hardware tools (\$15,000) to manage the internship and co-op enterprise.

Sustenance

The university will assume the yearly maintenance costs of \$6,000 at the end of the grant period.

Objective 4: Placement of 48 students on internships and co-operative education in private industry between May 2014 and June 2016.

Grant Funds

During the project period, we have \$109,800 in commitments from private business partners for paid internships. \$89,800 requires a match from the state and \$20,000 does not require a match.

Sustenance

Once the OMIC-KSDFW is fully implemented, full internship costs will be paid by employers. OMIC-KSDFW will enable CSU to work with our industrial partners to update courses, build relationships with employers and economic development agencies, develop infrastructure to sustain internships and coops as part of student's academic curriculum.

Scholarships

The CSU foundation will provide \$2,000 in scholarships for each student that successfully completes an internship.

Objective 5: Provide training to enhance leadership and soft skills.

Grant Period

The Business Cluster partners will provide workshops and other services at their expense during the grant period and beyond.

Assessment of Students Learning Outcomes, Business Participation, and Program Success

The University has systematized the assessment process at various levels such as courses, programs, departments, colleges and the Institution through its Office of Academic Planning and Assessment (OAPA). OAPA will utilize an assessment software called CampusLabs which has a baseline module which will be used to systematically organize and administer the internship assessments and metrics, electronically administer student and Supervisor/Employer surveys and analyze data resulting from the assessment conducted at the various levels. CampusLabs will be used for the assessment of student learning outcomes, participation of the different business and the overall success of the program at critical intervals.

Critical elements of student learning outcome assessment during the internship will be developed by the faculty responsible for internship courses. Expectations for the knowledge, skills and disposition and other specific competencies to be achieved and specific competencies for each type of internship, including levels of performance in areas such as professional conduct, ethics, skills brought to the internship assignment, skills enhanced, content knowledge application, team work, communication abilities and contribution towards process improvement at the work place during internship will be included in the assessment. The CampusLabs assessment software will be used so that analysis of student performance during internships can be conducted at course, program, departmental and college levels. Results of the analyses will be used to inform students, departments, college and university as well as business participants about areas that need to be improved during the implementation of future internship projects. This process will allow us to develop a feedback loop as we identify specific areas that need to be enhanced and improved for successful preparation of our students for the workforce, for example:

1. What knowledge, skills and professional dispositions do our students need to develop prior to and during internship and co-op experiences to allow them to successfully transition from internships into permanent positions?

2. What do data generated from assessment of student performances say about the courses and/or the curriculum, methods of course/program delivery used to train and guide students? Are they current, relevant and discipline-specific and do they employ best practices in students' fields of study?
3. What actions and decisions should students, their departments and/or college need to make to appropriately address gaps in the knowledge, skills or professional dispositions needed for successful preparation and transition into the workforce?

Mr. Michael True, the Internship Center Director at Messiah College and nationally recognized Internship expert, will consult with CSU's Career Services to guide the development of the internship/co-op assessment process as the University adopts portions of Messiah's College internship evaluation model. See Appendix 2

Program Management

OMIC-KSDFW will enable CSU to centralize all of our internship activities in our Career Services Center. Currently internship activities are implemented in three separate offices; Center for Student Opportunities (CSO), College of Business, and Career Services. OMIC-KSDFW will hire a full time Internship Manager who will be responsible for the development, implementation, and daily administration of the OMIC-KSDFW Program. The Manager will advise students, work with faculty to review internship and co-op job descriptions for relevance to majors, participate in employer and job development, and maintain employer relations and promote the program. Historically, the CSO has focused on, and has been very successful placing students on research internships at government facilities and university laboratories. Since 2006, the CSO has placed 156 students in internships at various sites including prestigious national laboratories, universities and private industries (see Appendix 2). The College of Business has also been successful in placing students in internships and Co-ops. Since 2012, the college has placed 13 students in internships (see Appendix 2).

Under the OMIC-KSDFW program, the CSO, the College of Business, and Career Services will work together to centralize and standardize the internship and co-operative educational experience at CSU. Collectively, they will provide students with a local, "bridge resource" that links CSU's students and Ohio employers with the state's JobsOhio and Ohio Means Jobs resources. The OMIC-KSDFW will provide academic guidance, internships and scholarships, and professional development workshops. The OMIC-KSDFW will liaison with academic departments and faculty, regarding student academic and career development opportunities.

The university intends to acquire a comprehensive management software, "Interfase Professional" that automates the entire career services process at universities. The software enables students to easily register, search and apply for jobs and on-campus interviews online, and manage multiple resumes, cover letters and other employment-related documents. We will be able to track referrals, placements, log-ins, jobs viewed and applied for, and access the history. Interfase will enable posting and managing job listings online, including access to www.OhioMeansInternships.com; assess programs by surveying students and employers; easily communicate with robust mass email and student text messaging functionality; use note functionality to document student and employer interactions – from student advising/counseling to on-site employer visits; enable students to easily schedule counseling appointments online with the appointment scheduler; allow students to search and contact mentors, view career articles and resources, and access a national job stream. The Co-op/Intern module of Interfase is a comprehensive software solution designed specifically for co-operative education and

internship programs. The module enables student/employer registration; learning agreement and e-signature gathering; mid-term student/employer evaluations; end-of-term student/employer evaluations; contact management; placement tracking; co-op/intern timeline management; alumni mentoring; job posting/management and enable faculty access and the ability to conduct performance evaluations.

Faculty Training and Long Term Participation

In order to institutionalize the experiential education at CSU, faculty will be responsible for revising courses in manufacturing engineering and related areas. The courses are being revised to incorporate the James Elam Robotics Laboratory into additional MFE courses. These revised courses are required for MFE students to graduate and are taught by all members of the MFE Department. Faculty engagement in work force development will be facilitated through an effort to place faculty / student teams at the industrial work places during summer and continuing related work in their respective departments. The faculty members would assess the work assignment of the student interns, their job satisfaction, and their practical experience. Also the faculty would seek feedback from the employer to determine the students' level of preparation and seek feedback on areas that need improvement in our curriculum and the education of our students.

The MFE program at CSU is accredited by the Accreditation Board for Engineering and Technology, (ABET) which requires the faculty in the program to be continuously engaged with the industry. The program in Environmental Engineering (ENE) will be applying for the ABET accreditation in the near future and will follow similar requirements. Deans and Department Chairs will develop a plan to incorporate related metrics of working with the industry in the evaluation of faculty performance. The mechanism of course release time to develop improved curricula will be used by the departmental chairs and the deans. Through the Industrial Advisory Council and other mechanisms we will explore methods to keep faculty in close contact with the industrial partners. Faculty members will be encouraged to develop contacts in the industrial work places and offer their expertise to companies to improve their techniques and processes. As part of the revision of MFE courses, faculty will be trained on the new robotics software and hardware during the summer months.

Through the efforts from the Dean's Office and the Center for Teaching and Learning at the University, opportunities for faculty members will be sought to provide training and other professional development opportunities. The College is represented in the Ohio Engineering Deans Council. In collaboration with other larger institutions in Ohio, opportunities to participate in short term training through web technologies and also face to face meetings will be arranged. Currently, larger companies such as Caterpillar and Agilent are engaged in offering engineering professionals webinars on many technical topics. These webinars will be systematically researched and arranged. This practice will be institutionalized at the College level through the Office of the Dean leading to improved linkages with the industry.

In the College of Business, internship courses are already in the catalog but participation is limited because faculty have heavy teaching loads and are unable to supervise and mentor students. The OMIC will provide release time for faculty to mentor students in internship courses. The Internship Manager will be responsible for securing internship and co-op opportunities for students, so faculty members will be able to mentor students.

Institutionalization of OMIC-KSDFW in Job Development and Business Participation

The development of the “Business Cluster” will invite the presence of companies to visit campus and speak to all of the student body on “Preparation for The Work Force”. This will allow early intervention and training for our students. The companies will provide training workshops on leadership and soft skills. This will also provide a venue for on-going dialogue with employers in terms of what their respective company looks for when interviewing and hiring employees. The “Cluster” will be comprised of companies from various business industries.

The Business Cluster will consist of corporations who provide:

- 1) Coaching to students and connecting college students to potential opportunities in the field of their businesses.
- 2) Leadership training skills, and acts as a resource as deemed appropriate by the company.
- 3) Coach in preparation for networking, internships, full-time employment and graduate school opportunities.
- 4) Coach in interviewing techniques, feedback, etc.
- 5) Coach in developing soft skills, i.e., social etiquette, dress.
- 6) Any other areas germane to job preparation.

Career services will continue to make phone calls and follow leads to build a strong base for employment opportunities for Central State University students. The purchase of the Career Services software package, among other things, will allow:

- 1) Employers to schedule appointments with students on-line.
- 2) Students may post their resume on-line.
- 3) Potential employers may view resumes on-line.
- 4) CSU will be able to track which companies are hiring our students and how many students received a job offer.
- 5) Generate tracking reports on demand.

The process/paperwork between companies and the university for Internships and Co-ops can be accomplished on-line.

Career Services will develop a “poster child” marketing card highlighting student success stories. There will be three or more Central State University students highlighting the companies where they have been recruited for employment. The marketing card will highlight students from various disciplines; and will include a personal solicitation for companies to participate in our Career Fairs and to consider hiring a Central State University student for internships, co-ops or full-time employment. There will be a follow-up telephone call to each of the companies by a career specialist.

We will establish an Internship Advisory Committee consisting of our industry partners and potential partners during the grant period to provide external oversight of the program. The IAC would enable us engage the industrial partners in job development beyond the grant period.

Budget Narrative

Personnel

1. The OMIC Internship Manager (100%) will be responsible for coordination with CSU faculty, Career Services and employers to institutionalize the OMIC–KSDFW. The Internship Manager will be responsible for providing experiential education information services to current students, faculty, and employers and will be responsible for research and current trends in experiential education. \$45,000 + \$17,550 in fringe benefits (\$62,550) for two years will be charged to the project for a total of \$125,100.
2. Faculty will advise supervise and mentor student interns \$12,000 including fringe benefits.
3. Time for the co-PIs to devote to the project and release time for MFE faculty to revise course curricula is calculated at \$36,920 and will be paid with CSU funds.

TOTAL PERSONNEL: \$174,020

Supplies. Consumable office supplies and training supplies will be provided through project funds of \$7,500. The CSU Foundation will pay \$10,000 for supplies for the robotics laboratory.
TOTAL SUPPLIES: \$17,500

Contracted Services. CSU will contract with Michael True, Internship Manager at Messiah College, to provide direction to OMIC-KSDFW to help ensure its success. \$5,000 will be charged to the project.

Travel. Mileage reimbursement will be paid to the Internship Manager to attend conferences and meet with potential internship and co-op employers. \$5,000 will be charged to the project.

Scholarships. Each successful internship student will receive \$2,000. \$96,000 will be charged to the CSU Foundation.

Employer Salaries. Internship and co-op participants are paid. \$89,800 will be charged to the project; businesses/organizations taking interns will pay \$109,800; and the CSU Foundation will pay \$10,000 for students to work in the robotics lab.
TOTAL EMPLOYER SALARIES: \$209,600

Other Employer Contributions Professional development for interns will be given prior to the internship. \$5,000 will be provided by Business funds and \$5,000 will be charged to the project.

Other. Robotics hardware and management software will be purchased for the project. \$98,000 for robotics hardware and software will be charged to the CSU Foundation. Tablet for the Internship Manager, workshops, student workstations with computer access and the Interfase internship management software, a total cost of \$35,000, will be charged to the project.
TOTAL OTHER: \$133,000

Indirect Costs. \$22,352 will be charged to the project.

Total Costs: \$654,512 divided as follows: OBR = \$301,752; Business Funds = \$114,800; CSU Funds = \$36,920; CSU Foundation = \$214,000

Student Wages = 30% of the budget; Capacity Building = 63% of the budget; Indirect Costs = 7% of the project budget.

Appendix A

Budget

Activity	Total	Regents Funds	Business Funds*	Applicant Funds	Education Partner Funds	Name of Education Partners	Other Partner Funds	Name of Other Partners
Personnel	\$ 174,020	\$ 137,100	\$ -	\$ 36,920	\$ -	Wilberforce University, Greene County Career Center, Sinclair Community College	\$ -	CSU Foundation
Supplies	\$ 17,500	\$ 7,500					\$ 10,000	
Purchased Services	\$ 5,000	\$ 5,000						
Travel	\$ 5,000	\$ 5,000						
Scholarships	\$ 96,000						\$ 96,000	
Employer Salaries	\$ 209,600	\$ 89,800	\$ 109,800				\$ 10,000	
Other Employer Contributions	\$ 5,000		\$ 5,000					
Other (Robotics Hardware, Management Software, Workshops, Student Work Stations, Tablet for JM)	\$ 133,000	\$ 35,000					\$ 98,000	
Subtotal	\$ 645,120	\$ 279,400	\$ 114,800	\$ 36,920	\$ -	\$ -	\$ 214,000	0
Indirect Costs 8% or less	\$ 22,352	\$ 22,352	\$ -	\$ -		\$ -	\$ -	
TOTAL	\$ 667,472	\$ 301,752	\$ 114,800	\$ 36,920	\$ -	\$ -	\$ 214,000	0

*Equal to or greater than 100% of requested state money for undergrad programs and 150% for grad programs

Share of Budget

Student Wages	30%	
Capacity Building	63%	\$ 328,800
Indirect Costs	7%	

Regent Funds	\$ 301,752
Private Funds	\$ 328,800
Applicant Funds	\$ 36,920

Appendix B

Business Snapshot

Employer Name	Total Intern & Co-op Wages	# of Intern Positions	# of Co-op Positions	Amount of Other Employer Contributions
MillerCoors	\$ 19,000	5		\$ 5,000
Riverside Research	\$ 68,800	30		\$ -
KeyBank	\$ 20,000	2		\$ -
TDL Tool Inc	\$ 2,000	1		\$ -
	\$ -	0		\$ -
4	\$ 109,800	38		\$ 5,000
Total # of Employers Goes Here	Total Wage Commitment Goes Here	Total Number of Positions Goes Here	Total Number of Positions Goes Here	Total Amount of Other Employer Contributions Goes Here

Appendix C

Letters of Commitment

Letters of Commitment

- 1.** Dayton Development Coalition
- 2.** Dayton Area Chamber of Commerce
- 3.** Miller Coors
- 4.** Riverside Research
- 5.** Wilberforce OMIC
- 6.** TDL Tool Inc
- 7.** Sinclair Community College
- 8.** Greene County Career Center
- 9.** Miami Valley Research Park (MVRP)
- 10.** MVRP Background Information
- 11.** City of Xenia
- 12.** Air Force Institute of Technology

October 28, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey:

The Dayton Development Coalition enthusiastically supports Central State University's (CSU) proposal entitled, "Ohio Means Internships and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW). CSU is an integral member of the DDC. Dr. Cynthia Jackson-Hammond, CSU's president, is a member of the DDC Board where she plays an integral role in the implementation of our strategic plan in the growth of the Dayton Region.

The OMIC - KSDFW goal of enhancing and expanding CSU's capacity to provide internships and cooperative experiences for students in the Advanced Manufacturing, Aerospace & Aviation, Agribusiness & Food Processing, Automotive, Biohealth, Energy, Financial Services, and Information Services & Software industries complements DDC's goal of expanding the awareness of our aerospace and defense initiatives, supporting commercialization efforts in leading industries, and continuing business recruitment efforts.

We look forward to assisting the State of Ohio and CSU in accomplishing the goal of recruiting and retaining students that attend college in the State. If you have questions or comments please contact me.

Sincerely,



Jeff Hoagland
President & CEO

1 Chamber Plaza
Fifth and Main Streets
Dayton, Ohio 45402-2400
www.daytonchamber.org

November 8, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey,

The Dayton Area Chamber of Commerce (DACC) enthusiastically supports Central State University's (CSU) proposal entitled, "Ohio Means Internships and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW). The OMIC – KSDFW's goal of enhancing and expanding CSU's capacity to provide internships and cooperative experiences for students is in alignment with DACC's new Strategic Plan. DACC's 2014-2016 Strategic Plan includes: Business Retention and Growth; Identify and adopt programs and services to support regional and member business success in the region and; Retain, align and attract appropriate workforce to support business.

A successful implementation of the OMIC- KSDFW will complement DACC's strategic action to "Provide connections between students, educational providers and employers through internships, apprenticeships and co-op." We look forward to assisting the State of Ohio and CSU in accomplishing the goal of recruiting and retaining students that attend college in the State.

If you have questions or comments please contact me at pparker@dacc.org.

Sincerely,



Phillip L. Parker, CAE, CCE
President and CEO



November 1, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey,

MillerCoors is pleased to submit this letter of commitment in support of Central State University's (CSU) application to provide co-op and internship opportunities for promising students under the "Ohio Means Internships & Co-ops" Program. As you are aware, the Manufacturing Industry in Ohio has a need for highly trained and qualified professionals with varying levels of college degree completion. MillerCoors is particularly excited about Central State's program, entitled, "Ohio Means Internship and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW), because it promises to bring together a mixed team of academic, business, and private partners who already have in-place the academic curriculum, training initiatives and on-board professionals that can make such a program work.

Since 2008, we have had an ongoing relationship with Central State through the co-op program. MillerCoors commits to provide internship and co-op positions for one or two Central State students who successfully complete our background, physical and drug screening processes; to complete 8 to 10 weeks of experience at our Ohio facility or field location between June 2014 and June 2016. Each Internship is valued at \$7,600 per student, for a total commitment of up to \$38,000. MillerCoors understands that the OMIC - KSDFW program will pay 50% of the intern's wages and we will pay 50%.

And:

MillerCoors provide in kind support of eight employees including salaries, benefits based on the salaries, consultant services, travel by employees, materials, supplies, equipment and communication costs valued at approximately \$5,000 working specifically on the objectives of the grant.



MillerCoors is pleased to collaborate on this important effort to connect more Ohioans with internships, cooperative education, and employment. Through this initiative, we know we can have a significant impact on the economic development of the region and the State of Ohio. We are pleased to be an active partner in this effort.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Dahmer", written over a light gray signature line.

Name

Kevin Dahmer,
Acting HR Manager

November 4, 2013

Ohio Means Internships and Co-Ops
 University System of Ohio
 Board of Regents
 30 East Broad Street, 36th Floor
 Columbus, Ohio 43215-3414

Dear Ohio Means Internships and Co-Ops Staff:

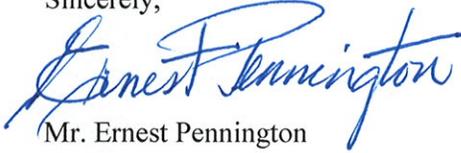
Riverside Research is pleased to submit this letter of intent in support of Central State University's application for internship under the Ohio Means Internships and Co-Ops program.. Riverside Research is an independent, not for profit, research and engineering center, providing unbiased and trusted technical and scientific expertise. Riverside is committed to continuing to cultivate our relationship with the Central State University while supporting the OMIC's goal of investing in programs that build the capability for sustainability and relevancy in Ohio's workforce.

Riverside Research is committed to initiate 5 new internship positions per semester for Central State University students in FY 14 until FY 16, at our Ohio location. Interns can be summer only and/or part-time during the school year. An internship position is based on a 12 week period per student at a \$16.00 an hour rate. Riverside Research understands that the OMIC program will pay 50% of the intern's wages and Riverside Research will pay 50%. An estimated table breakdown of expected support is below:

<i>Total Number of Intern Positions</i>	<i>Hours worked for internship</i>	<i>Internship schedule</i>	<i>Cost per student</i>	<i>Grant Contribution per student</i>	<i>Total cost for employer for all students annually</i>
5 per semester (Spr/Fall)	180 per semester	15hrs/wk per semester	\$2880 per semester	\$1,440 per semester	\$14,400
5 per summer	500 per summer	40 hrs/wk per summer	\$8000 per summer	\$4000 per summer	\$20,000
					Grand total \$34,400

Riverside Research is pleased to collaborate on this important effort to connect more Ohioans with internships, cooperative education, and employment. Through this initiative, we know we can have a significant impact on the economic development of the region and the State of Ohio. We are pleased to be an active partner in this effort.

Sincerely,



Mr. Ernest Pennington
Vice President
Community Outreach and Special Projects

November 8, 2013

Ohio Means Internships and Co-Ops
 University System of Ohio
 Board of Regents
 30 East Broad Street, 36th Floor
 Columbus, Ohio 43215-3414

Dear Ohio Means Internships and Co-Ops Staff:

Riverside Research is pleased to submit this letter of commitment in support of Wilberforce University's partnership with Central State University for internships under the Ohio Means Internships and Co-Ops program. Riverside is committed to cultivating its relationship with both University's while supporting the OMIC's goal of investing in programs that build the capability for sustainability and relevancy in Ohio's workforce.

Riverside Research is committed to also initiate 5 new internship positions per semester for Wilberforce University students in FY 14 until FY 16, at our Ohio location. Interns can be summer only and/or part-time during the school year. An internship position is based on a 12 week period per student at a \$16.00 an hour rate. Riverside Research understands that the OMIC program will pay 50% of the intern's wages and Riverside Research will pay 50%. An estimated table breakdown of expected support is below:

<i>Total Number of Intern Positions</i>	<i>Hours worked for internship</i>	<i>Internship schedule</i>	<i>Cost per student</i>	<i>Grant Contribution per student</i>	<i>Total cost for employer for all students annually</i>
5 per semester (Spr/Fall)	180 per semester	15hrs/wk per semester	\$2880 per semester	\$1,440 per semester	\$14,400
5 per summer	500 per summer	40 hrs/wk per summer	\$8000 per summer	\$4000 per summer	\$20,000
					Grand total \$34,400

Riverside Research is pleased to collaborate on this important effort to connect more Ohioans with internships, cooperative education, and employment. Through this initiative, we know we can have a significant impact on the economic development of the region and the State of Ohio. We are pleased to be an active partner in this effort.

Sincerely,



Mr. T.I. Weintraub
Executive Vice President

TDL TOOL INC.

1296 S Patton ST Xenia, Ohio 45385

Phone 1-937-374-0055

Fax 1-937-374-0057

steve@tdltool.com

November 2, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey,

TDL Tool Inc. is pleased to submit this letter of commitment in support of Central State University's (CSU) application to provide co-op and Internship opportunities for promising students under the "Ohio Means Internships & Co-ops" Program. As you are aware, the manufacturing industry in Ohio has a need for highly trained and qualified professionals with varying levels of college degree completion. TDL Tool is particularly excited about Central State's program, entitled, "Ohio Means Internship and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW), because it promises to bring together a mixed team of academic, business, and private partners who already have in-place the academic curriculum, training initiatives and on-board professionals that can make such a program work.

TDL Tool's commits is to provide an Internship for (1) Central State student who is to complete 10 weeks of experience at our Ohio facility between June 2014 and June 2016. Each Internship is valued at \$4,000.00 per student, for a total commitment of \$4,000.00. TDL Tool understands that the OMIC - KSDFW program will pay 50% of the intern's wages and we will pay the balance. OMIC - KSDFW will pay \$2,000.00 and TDL Tool will pay \$2,000.00.

TDL Tool is pleased to collaborate on this important effort to connect more Ohioans with internship education and employment. Through this initiative, we know we can have a significant impact on the economic development of the region and the State of Ohio. We are pleased to be an active partner in this effort.

Sincerely,

Steven Mangan, President
TDL Tool Inc.



SINCLAIR
COMMUNITY COLLEGE

Dayton Campus
444 West Third Street
Dayton, Ohio 45402-1460

Science, Mathematics and Engineering

November 18, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey:

Sinclair Community College is pleased to submit this letter of commitment in support of Central State University's application to provide co-op and internship opportunities for promising students under the "Ohio Means Internships & Co-ops" Program. Central State's application, entitled, "Ohio Means Internships and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" will bring together a team of academic, business, and private partners who already have in place the academic curriculum, training initiatives, and professionals who will make the program work.

Sinclair and Central State have an articulation agreement that enables students to transfer easily between the two institutions. Sinclair and Central State were also partners under the Choose Ohio First Scholarship Program. The focus technical areas proposed by Central State will include robotics and automation in which Sinclair has a wealth of experience working with the industries in the area. Training facilities and capabilities at Sinclair include the Advanced Integrated Manufacturing Center and Automation and Controls Technology with Robotics program which are critical in advanced manufacturing.

We propose to collaborate with Central State in the following areas:

- Developing a pipe line for students graduating with associate degrees from Sinclair to Central State in the areas of manufacturing engineering, computer science, and environmental engineering.
- Developing appropriate training programs for students at Sinclair and Central State in preparing for engaging in internships.
- Developing joint partnerships to work with area industries in the fields of manufacturing engineering, computer science, and environmental engineering.

Sinclair's Division of Science Mathematics and Engineering will coordinate the efforts with the College of Science and Engineering at Central State.

Sinclair Community College is pleased to collaborate on this important effort to connect more Ohioans with internships, cooperative education, and employment.

Sincerely,

Anthony M. Ponder
Dean

GREENE COUNTY CAREER CENTER

2960 West Enon Road
Xenia Ohio 45385-9545
937-372-6941 or 426-6636
FAX 937-372-8283



November 15, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey,

Greene County Career Center (GCCC) is pleased to submit this letter of commitment in support of Central State University's (CSU) application to provide co-op and internship opportunities for promising students under the "Ohio Means Internships & Co-ops" Program. GCCC is particularly excited about Central State's program, entitled, "Ohio Means Internships and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW), because it brings together a team of academic, business, and private partners who already have in place the academic curriculum, training initiatives and on-board professionals that can make such a program work.

GCCC and CSU are trying to develop an articulation agreement that enables students to enter into programs in manufacturing engineering, environmental engineering, biology and other related areas. With CSU having been approved by the State of Ohio for the Land Grant Status additional cooperative activities will be planned between the Center and CSU. The focus technical areas proposed by CSU will include manufacturing and biotechnologies in which GCCC has a wealth of experience in placing students in the industries from the area and the Dayton Region. Training facilities and capabilities at GCCC includes a training facility for engineering, welding, a greenhouse suitable for landscape studies and an information technology laboratory.

We propose to partner with CSU in the following areas:

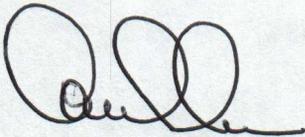
- Developing a pipe line for students graduating from GCCC to CSU in the areas of manufacturing engineering, computer science, natural sciences and environmental engineering.

- Developing appropriate training programs for students at GCCC and CSU in preparing for engaging in internships.
- Developing joint partnerships to work with area industries in the fields of biotechnology, manufacturing engineering, computer science and environmental engineering.
- Developing programs to place GCCC students in internships in the area facilities of industrial partners through the internship manager for the proposed project at CSU.

Mr. Rick Pridemore, Director of Satellite Operations will coordinate the efforts with the College of Science and Engineering at CSU.

Greene County Career Center is pleased to collaborate on this important effort to connect more Ohioans with internships, cooperative education, and employment. Through this initiative, we know we will have a significant impact on the economic development of the region and the State of Ohio.

Sincerely,

A handwritten signature in black ink, appearing to be "Rick Pridemore", written in a cursive style.



Miami Valley Research Foundation
3155 Research Blvd.
Dayton, Ohio 45420
937.252.5906
FAX: 937.252-9314
www.theresearchpark.com

November 6, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, OH 43215-3414

Dear Chancellor Carey,

The Miami Valley Research Foundation (MVRF) enthusiastically supports Central State University's (CSU) proposal entitled, "Ohio Means Internships and Co-ops- Knowledge, Skills, and Disposition for the Future Workforce" (OMIC – KSDFW). The OMIC – KSDFW's goal of enhancing and expanding CSU's capacity to provide internships and cooperative experiences for students is in alignment with the Research Foundation's mission. Our mission is "to foster and promote the resources of the universities, business, and government in a collaborative environment which will promote the growth of intellectual and commercial enterprise that advances the economic welfare of the Dayton region".

In 1980, Central State University, Sinclair Community College, the University of Dayton, and Wright State University incorporated the MVRF as a non-profit 501(c) (3) organization. MVRF then created the Miami Valley Research Park as a location for advanced technology companies that are involved in basic research, prototype development, or the application of technology to a product or service. Today the Research Park consists of 1,250 acres of which 450 acres have been developed for 40 companies that employ over 4,000 employees. Attached is further background information and a current list of Park residents.

A successful implementation of the OMIC – KSDFW will help achieve the Research Park's goal of recruiting and growing leading technologies in the Miami Valley. We look forward to assisting the State of Ohio and CSU in accomplishing the goal of recruiting and retaining students that attend college in the State. If you have questions or comments, please feel free to contact me at bruce@theresearchpark.com.

Sincerely,

A handwritten signature in black ink that reads "Bruce E. Pearson".

President and Chief Executive Officer

Cc: President Cynthia Jackson-Hammond

Enclosures

mks

FACT SHEET
MIAMI VALLEY RESEARCH PARK
4th QUARTER 2013

The Miami Valley Research Park is a university-related research park owned by the 501(c)(3) non-profit Miami Valley Research Foundation, founded in 1980.

FOUNDATION MISSION

- Foster and promote the resources of the universities, business and government in a collaborative environment.
- Promote the growth of intellectual and commercial enterprise to advance the economic welfare of the Greater Dayton Region.

FOUNDATION MEMBERS

- Central State University
- Sinclair Community College
- The University of Dayton
- Wright State University

ASSOCIATE MEMBERS

- Air Force Materiel Command
- Aeronautical Systems Center
- Air Force Institute of Technology

PARK FACTS

- 1,250 Acres
- Located east of metropolitan Dayton, Ohio in suburban communities of Kettering and Beavercreek
- 450 acres currently developed
- Capital investment of \$400 million
- First building completed in the spring of 1985
- Twenty-one buildings completed totaling 2.3 million square feet
- 40 organizations
- 4,000 employees
- 2,500 students taking classes

TECHNOLOGIES IN THE PARK

Airframe Structural Integrity	Information Technology Training
Avionics Engineering	Logistics Systems
Biomedical Engineering	Materials Development
Engineering Services	Sensor Systems
Health Systems Management	Software Development
High Speed Digital Printing	Systems Integration
Human Development Studies	Technology Transfer/Financing
Information Management Systems	Traffic Management Systems
Information Technology Consulting	Ultra Sonic Sensor Development

The concept of the Research Park began in the late 1970's when the Dayton area was reacting to a major industry restructuring and the beginning of a national recession. Community and industry leaders, together with local university presidents, began discussing the future of the area and the shift in the economy from manufacturing to high-tech jobs. Recognizing that a quick fix was not appropriate, it was decided to create a world-class research park that could recruit research and advanced technology enterprises from business, industry and government to build and operate facilities in the Park.

This concept was embraced by the State of Ohio which donated 675 acres of under-utilized agricultural land and \$20 million to begin the Park.

The Park is interested in attracting advanced technology companies that are involved in one or more of the following activities:

- ⇒ basic research
- ⇒ prototype development
- ⇒ application of technology to a product or service

The Research Park's development is guided by a comprehensive land-use plan, design manual and set of restrictions adopted to provide low-density development (25%) and covenants to assure residents their property values will be protected. Strict performance standards apply and there is a major emphasis on environmentally-sensitive planning. Landscaping is required for the entire site, outdoor storage is not permitted and all utilities are placed underground. Every effort has been made to guarantee a "university campus environment" that will be attractive to employees, aid in employee recruitment and enhance property values.

The Miami Valley Research Foundation envisions a Research Park that would have a build out of approximately 12 million square feet of space and having over 35,000 employees. It is estimated more than \$2 Billion will be invested in physical facilities.

For more information, please visit the website at www.TheResearchPark.com or contact Bruce E. Pearson, President/CEO at (937) 252-5906 / FAX (937) 252-9314
E-Mail bruce@TheResearchPark.com.

**List of Residents
Miami Valley Research Park
4th Quarter 2013**

COMPANY NAME	PRODUCTS/ SERVICES	NUMBER OF EMPLOYEES
ATK Aerospace Structures – Military Programs	Radar and sensing technologies	105
Booz Allen Hamilton	Managerial Consulting	450
BWI Group	Automotive Suspension Engineering	175
Chally	Employment testing and management productivity tools	25
Chapel Romanoff Technologies, LLC	Network services, electronic safety and security, system design & integration	125
Community Tissue Services	Human tissue processing, distribution, marketing, and research and development	165
Cornerstone Research Group	Research and Development	15
Dayton Area Graduate Studies Institute (DAGSI)	Scholarships for graduate engineering students	2
Dayton Clinical Oncology Program	Cancer Research Clinical Trials	25
Defense Acquisition University/Midwest (DAU)	Continuing Education for Acquisition Services	93 / 1,000 Students
The Greentree Group	Developer of IT-enabled business process	40
Kodak Company	High speed digital printers	500
Learning Center operated by Sinclair Community College	Information Technology Training	8 / 1,500 Students
Miami Valley Research Foundation	Owner/Developer of Miami Valley Research Park	6
Montgomery County Environmental Services Department	Administrative and Engineering Offices	200
Mound Laser and Photonic Center	Laser Micro/Nano Fabrication	45
MZA Associates	Advanced Optical Design	12
Peer Media Technologies	Internet Security	25
Reynolds and Reynolds Co.	Integrated information management solutions	1,350

COMPANY NAME	PRODUCTS/ SERVICES	NUMBER OF EMPLOYEES
S&K Technologies	Airplane Structural Integrity	5
Sawdey Solution Services	Strategic Planning & Transformation	32
Schneider Electric North America Operating Division	Photoelectric and Ultrasonic sensor development	60
Southwestern Ohio Council for Higher Education	Higher education consortium	8
Strategic Leadership Associates, Inc.	Create organizational vision and strategy	4
TSI Graphics, Inc.	Editorial and design services for the educational book publishing industry	10
WilmerHale	Law Firm Business Service Center	250
Woolpert, Inc.	Engineering, geospatial and related services firm	200
Wright State University Aerospace Medicine	Residency Program in Aerospace Medicine	7
Wright State University Boonshoft School of Medicine Department of Community Health	Administrative Office	3
Wright State University Center for Healthy Communities	Administrative Office	4
Wright State University Center for Global Health Systems, Management and Policy	Improve management, economic performance, quality and education in health systems	15
Wright State University Lifespan Health Research Center	Family Health Research	50
Wright State University Substance Abuse and Related Disability Issues	Research, development and training for persons with disabilities	20

For additional information contact:

www.TheResearchPark.com

Voice: (937) 252-5906 Fax: (937) 252-9314

Email: bruce@TheResearchPark.com



VIVID HISTORY. VIBRANT FUTURE.

OFFICE OF THE CITY MANAGER

101 North Detroit Street • Xenia, Ohio 45385-2911 • Phone (937) 376-7231 • Fax (937) 374-1818 • www.ci.xenia.oh.us

November 2, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey,

The City of Xenia enthusiastically supports Central State University's (CSU) proposal entitled, "Ohio Means Internships and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW). CSU is one of the largest employers in the Xenia community and as an HBCU contributes to the diversity of the workforce. Increasing internships and cooperative education opportunities at CSU will further increase the diversity of the Xenia area workforce. The City of Xenia has a diversified base ranging from "traditional" manufacturing to high technology including research and development.

OMIC - KSDFW's goal is to enhance and expand CSU's capacity to provide internships and cooperative experiences for students in the Advanced Manufacturing, Aerospace & Aviation Agribusiness & Food Processing, Automotive, Biohealth, Energy, Financial Services, and Information Services & Software industries. The successful implementation of OMIC - KSDFW will complement the City of Xenia's economic development activities which include: retention & expansion of the existing employment and tax base of the community; community and regional cooperation activities to expand the Xenia/Greene County presence in the national and international economic development arenas; and community incentives and promotion, and to provide educational, technical, and financial assistance as applicable.

We look forward to assisting the State of Ohio and Central State in accomplishing the goal of recruiting and retaining students that attend college in the State. If you have questions or comments, please contact me at 937-376-7230.

Sincerely,

Jim Percival
City Manager

cc: Cynthia Jackson-Hammond



Office of the Dean
Graduate School of Engineering and Management
Air Force Institute of Technology
Wright-Patterson Air Force Base
AFIT/EN, 2950 Hobson Way, Dayton, OH 45433-7765

November 14, 2013

Chancellor John Carey
Ohio Board of Regents
30 East Broad Street, 36th Floor
Columbus, Ohio 43215-3414

Dear Chancellor Carey,

The Graduate School of Engineering and Management at the Air Force Institute of Technology (AFIT) is pleased to provide a letter of support for Central State University's (CSU) application to provide co-op and internship opportunities for promising students under the "Ohio Means Internships & Co-ops" program. As a military institute, we are focused on defense-related manpower development for our national defense. The area of Advanced Manufacturing to develop products in support of our war-fighters is a high-priority area for us. Wright Patterson Air Force Base is a key employer and facilitator for Ohio's economic development. In this respect, the state of Ohio has a need for highly-trained and qualified professionals with varying levels of college degree completion. In our graduate school of engineering and management, we are in need of Central State University's students to fill our immediate employment needs.

For this reason, AFIT is particularly interested in Central State's program, entitled, "Ohio Means Internship and Co-ops - Knowledge, Skills, and Disposition for the Future Workforce" (OMIC - KSDFW) because it brings together a mixed team of academic, business, and private partners who already have existing academic curriculum, training initiatives and qualified professionals that can make such a program successful. We have had ongoing collaborative relationships with Central State University for over 10 years through research and educational partnerships.

We understand that it takes a true and meaningful commitment to make a partnership agreement work well. Therefore, AFIT is committed to providing internship and Co-op positions for Central State students to complete 8 to 10 weeks of experience at our Wright Patterson Air Force Base location between June 2014 and June 2016.

AFIT is pleased to collaborate on this important effort to connect more Ohioans with internships, cooperative education and employment opportunities. Through this initiative and others, we know we can have a significant impact on the economic development of the region and the state of Ohio. We are pleased to be an active partner in this effort. Please feel free to contact me if you need more details.

Sincerely,

Adedeji B. Badiru, Ph.D., PE, PMP, FIIE
Dean
(937) 255-3025; adedeji.badiru@afit.edu

Appendix D

Other Documents

- 1. Implementation Schedule**
- 2. Manufacturing Engineering Industrial Advisory Council Members**
- 3. College of Business' Business Advisory Council Members**
- 4. OMIC-KSDFW Assessment of Student Learning Model**
- 5. Internship Manager Job Description**
- 6. Messiah College Evaluation Model**
- 7. Center for Student Opportunities Internship Report**
- 8. College of Business Internship Report**
- 9. Bio's of Project Directors**

Implementation Schedule

Please provide a brief bulleted list of major components of grant activity taking place each term.

Term	Grant Activities
Spring 2014	Hire Internship Manager. Acquire Interfase Software. Acquire Workstations for students and computer for Internship manager
Spring 2014	Begin Professional Development programs for internship and co-op applicants.
Summer 2014	Revision of MFE courses, acquire Motoman software and hardware, place students on internships, integrate Banner student information with Interfase. Internship assessment training by Mr. True
Summer 2014	Professional Development programs for internship and co-op applicants.
Fall 2014	Place students on internships, teach revised MFE courses. CSU Career Fair. Business Cluster Workshops. Internship Review
Fall 2014	Professional Development programs for internship and co-op applicants. Leadership and soft skills training. Internship Advisory Council Meeting
Spring 2015	Place students on internships
Spring 2015	Professional Development programs for internship and co-op applicants. Business Cluster Workshops.
Summer 2015	Place students on internships
Summer 2015	Professional Development programs for internship and co-op applicants.
Fall 2015	Place students on internships. CSU Career Fair. Internship Review. Internship Advisory Council Meeting. Business Cluster Workshops.
Fall 2015	Professional Development programs for internship and co-op applicants.
Spring 2016	Place students on internships. Business Cluster Workshops.
Spring 2016	Professional Development programs for internship and co-op applicants.

MANUFACTURING ENGINEERING DEPARTMENT

COMPANIES REPRESENTED IN THE INDUSTRIAL ADVISORY COUNCIL

1. BOEING – Mr. Amonie Akens
2. Universal Technologies, Corporation (Defense Contractor & Technology Corporation)
3. 3M Corporation – Mr. Maurice Jefferson
4. TDL Inc. – Mr. Steve Mangan
5. General Electric – Health Care, Life Science Division, Mr. Ian Bullock
6. Department of Energy – Mr. Larry Kelly
7. Delphi Automotive Systems – Mr. Lawrence E. Williams
8. Coca Cola – Mr. Stefan Martin
9. Owens Corning – Mrs. Andrisa Jefferson
10. Universal Technology Corporation
11. Wright State Research Institute
12. Air Force Institute of Technology
13. Parker Hannifn
14. Miami Valley Punch
15. Emlay Group International
16. Seifried Associates

Central State University
Business Advisory Committee

American Electric Power

Ford Motor Company

Frito-Lay North America

General Electric (GE Money)

Honda of America Manufacturing, Inc.

Kroger

Lipsey Enterprises

Microsoft

Nestle Purina PetCare

Central State University
Performance Assessment of Student Internship/Co-op Experience

This Internship Performance Assessment Form will be placed in the student’s academic file with the Academic Advisor. A narrative evaluation to accompany the Performance Assessment Form may be completed by Internship Supervisor/Employer.

Name of Student: _____ Semester: _____

Internship Dates (Period): From: _____ To: _____

Internship Supervisor: _____ Title: _____

Employer’s Name: _____

The Family Educational Rights and Privacy Act (FERPA) of 1974, permits the student participating in internship or co-op experience to inspect his/her academic records or sign a waiver to relinquish his/her right to inspect academic records or recommendations. By signing this form, the student confirms that that he/she understands these rights and agrees to a waiver of his/her rights to inspect this performance assessment.

Student’s Signature _____ Date: _____

PERFORMANCE MEASURES	UNSATISFACTORY (Performance Level 1)	AVERAGE (Performance Level 2)	ABOVE AVERAGE (Performance Level 3)	GREAT (Performance Level 4)	EXCELLENT (Performance Level 5)
Content Knowledge (K) – Maximum 20 points					
K1 - Master of assignment					
K2 – Mastery of discipline area content knowledge and applications					
K3 – Mastery of best practices and research in the discipline or field of study					
K4-Apprenticeship ability					
Applied Skills (S) - Maximum 20 points					
S1 - Verbal Communication					
S2 - Written Communication					
S3 - Critical Thinking					
S4 - Leadership skills					
Professional Disposition (D) - Maximum of 20 Points					
D1 – Punctuality					
D2 – Reliability					
D3 – Ethical behavior or professionalism					
D4 – Enthusiasm and ability to multitask					
Total Points Earned					

Notes:

1. Verbal Communication refers to ability to ask questions when necessary and written Communication refers to the ability to prepare written documentation in recommended format, appropriate style and in Standard English
2. Apprenticeship ability refers to display of respect (civility) when working under supervision of a discipline expert.
3. Critical thinking skills include analytical and problem-solving skills and ability to come up with appropriate solutions during the internship or co-op experience.
4. Leadership skills include ability to follow protocol, lead (charisma), ability to work as part of a team (teamwork) and ability to provide service to others.

Position:	Internship Manager
Responsible to:	Director of Career Services
Overall Responsibilities:	The Internship Manager is responsible for providing quality career related internship services to current students, faculty, and employers. The Internship Manager will be the liaison to faculty and CSU departments to support experiential education for the university. This position is responsible for research of current trends in experiential education.
Duties:	<ul style="list-style-type: none"> • Serves as contact person for students, faculty, staff, and employers regarding experiential education opportunities. • Aggressively researches and contacts local companies and organizations to build networking and internship programs. • Builds and maintains working relationships with faculty to support departmental internship placements and advertise all internships to the student body. • Reviews learning contracts, log of hours, supervisors evaluation, and reflective journals for CSU co-op and internship seminars; and that this information is documented in the Career Services software. • Provides individual advising to students preparing to do internships and mentor them through the process. • Maintain standards for experiential education including updating learning contracts and maintaining records. • Researches and keeps current in employment trends and career development practices through participation in regional and national career organizations. • Working with Career Services, develop and facilitate internship orientations and workshops. • Present career/internship information to classes and student organizations. • Works with faculty and staff to promote cooperative relationships that will result in internship opportunities for students. • Builds and maintains working relationships with employers to develop job and internship opportunities for graduates, including site visits. • Maintain accurate records and data on student appointments, employer contacts, and presentations to use in departmental reports. • Utilize on-line career management system to help students in job search and collect placement data. • Works as a team-member to organize and publicize career fairs and other career related events. • Serves on university committees and boards as appointed. • Interacts regularly and closely with university faculty, staff, parents, administrators, and employers.
Qualifications:	Bachelor's degree in Marketing, Sales, Public Relations, or Communications, with at least one year of experience in promotions/development. Experience in on-line career management systems and tools is highly desired; experience in facilitating workshops, computer skills utilizing data spreadsheets, web design, and publications; and other duties as assigned. Must have previous work experience in a career center or experiential education.
Salary:	Commensurate with experience and qualifications.

Messiah College Assessment Model

Model Component	Outcome	Strategies	Assessment
Contextual Learning	Interns will learn what it means to be a self-directed learner through experiential education in authentic settings	Development of Learning Objectives Organizational Analysis Paper Workplace projects Site visits and guidance by Faculty and OMIC-KSDFW staff	Pre- and Post-Internship Self-Assessment Masterwork Portfolio
Awareness of Self	Interns will gain a greater understanding of their abilities and will experience increased self-confidence in their workforce readiness	Workplace projects Transferable Skills Paper Reflection/interaction in the Internship Seminar Site visits and guidance by Faculty and OMIC-KSDFW staff Executive Summary	Pre- and Post-Internship Self-Assessment Transferable Skills Paper Supervisor/Employer Evaluation Self-Evaluation Executive Summary Masterwork Portfolio
Knowledge of the World	Interns will demonstrate improvement in professional skills, competencies and attitudes	Workplace projects Professional Card Professional Etiquette Dinner Employer Presentations in Internship Seminar Executive Summary	Employer Evaluation Executive Summary Masterwork Portfolio
Decision and Action	Interns will assess and clarify their current understanding of themselves, their abilities and the workplace and plan a future course of action	Reflection/interaction in the Internship Seminar Transferable Skills Paper Executive Summary Individual guidance by OMIC-KSDFW staff Masterwork Portfolio	Masterwork Portfolio

CSO/STEM-X-ED Internship Sites 2006-2013

Internship Year	Number of CSU Interns
2005	7
2006	13
2007	21
2008	31
2009	35
2010	35
2011	32
2012	21
2013	11

Central State University students were interns at the following locations:

National Renewable Energy Laboratory (NREL), Brookhaven National Laboratory, New York, Lawrence Livermore National Laboratories, Livermore, CA, Ohio State University, Columbus, OH, Yellow Springs Instrument, Yellow Springs, OH, DMAX, Dayton, OH, FirstEnergy, Perry, OH, Wright Patterson Air Force Base, Dayton, OH, U.S. Environmental Protection Agency, Cincinnati, OH, Los Alamos National Laboratory, Los Alamos, NM, National Nuclear Security Administration (NNSA), Washington DC, NOAA, Silver Springs, MD, Boeing, Seattle, WA, Sandia National Laboratory, Albuquerque, NM, Northeast Ohio Regional Sewer District, Cleveland, OH, Avetec, Springfield, OH, Rolls Royce, Indianapolis, IN, National Composite Center, Kettering, OH, NASA Glenn, Cleveland, OH, University of Cincinnati, Cincinnati OH, ZIN Technologies, Cleveland, OH, Smithsonian Institution, Washington DC, ATK, Dayton, OH, NNSA Math Camp, New Mexico SREIP, Baltimore, MD, NASA Ames Academy for Space Exploration, University of Wisconsin Medical Program, Wisconsin, NCA, Alexandria, VA, AK Steel, PA, Case Western University, Cleveland, OH, RCA, Richland, WA

COB Student Internships and Job Placement 2013

Student	Intern/Co-P/Placement Organization	Dates	
Arielle Orr	Internship/Co-Op	Disney Corporation FL	Jan- Aug 2013
Markiesha Claiborne	Internship	WPAFB Budget and Finance	Aug 2012- Sept. 2013
Norman Houston	Internship	Job and Family Services, The State of OH	Jun- Sept. 2013
Tyreek Trammell	Internship	Key Bank, Dayton OH	May -Aug. 2013
Genevera Smith	Internship / Co-Op	NASA Glenn Research Center Cleveland	May-Aug. 2013
Lamont Durr	Internship / Co-Op	Wells Fargo, Columbus OH	May -Aug. 2013
Deon Smith	Internship/ Co-Op	Finish Line Sports, Washington Court Hs	Jan-2013 -
Alfred Harper	Internship	Blue Cross/Blue Shield MIS , MI	May -Aug. 2013
Brandy Turner	Internship	The City of Cleveland, Utilities Audit	May -Aug. 2013
Nazrene Roizer	Internship	Kroger Corporation	May -Aug. 2013

COB Student Internships and Job Placement 2012

Student	Intern/Co-P/Placement Organization	Dates	
Renult Turner	Internship	National Urban League	May- Sept. 2012
Derrick Roe	Internship/Co-Op	Reds National Baseball League	April- Oct. 2012
Arielle Bell	Internship	Macy's Corpotation	Jan-Aug 2012
Genevera Smith	Internship	NASA Glenn Research Center Cleveland	May-Aug. 2012
Nazrene Roizer	Internship	Kroger Corporation	May- Sept. 2012

BIO

Lowan Pritchett-Pitt

Lowan Pritchett-Pitt has over 25 years of experience in education and has held progressively responsible positions in student affairs to include Assistant Vice President of Student Affairs and Dean of Students. She is currently the Director of Career Services at Central State University where she is leading a team in rebuilding the structure of the department. Lowan will assume the position of Vice President Enrollment Management and Student Affairs in December, 2013. She is a doctoral candidate for the Ph.D. Degree in Organizational Leadership at the University of Maryland Eastern Shore. As Assistant Vice-President and Dean of Students she provided oversight for all areas of student affairs to include Career Services and worked closely in finding internship opportunities and in student career planning and preparation.

Lowan is an educator with a Bachelors Degree in Business Education and a Masters Degree in Human Resources Management.

Morakinyo A.O. Kuti

St. Thomas University, Miami, Florida MBA 1987 Business Administration
Central State University, Wilberforce, Ohio B.S. 1985 Finance

Director, Office of Sponsored Programs and Research, Central State University, 1999 - Present
Project Director, Diversifying Ohio in Science Technology, Engineering and Mathematics,
Choose Ohio First Scholarship Program, 2008 - Present
Co- Project Director, Jobs Experience for the Future Workforce” (JEFW), Ohio Means
Internships Proposal, 2013 - present
Project Director, Science, Technology, Engineering, and Mathematics Upgrade/Enhancement &
Outreach STEM UP-OUT, 2011 – Present

I have a strong background in providing opportunities for college students from underrepresented groups to successfully complete college. I am the project director for a program that has provided STEM scholarships to 434 undergraduate students, 38 community college students and 18 graduate students at eight colleges and universities. Over 70% of the students are low income first generation students and over 83% of the students are still in school, graduated or are in graduate school. I am also the co-project director for a program that has increased the student internship awards to CSU students by 100% over the past five years. I am currently the Administrative and Student Enrollment Core Director for the Center for Allaying Health Disparities through Research and Education Project funded by NIHHD. The CADRE project has increased the research infrastructure of CSU, the physical plant improvement, increased faculty and student research, and also increased number of CSU students matriculating to graduate schools