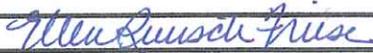


<b>Name of Lead Institution (only one)</b>	Wright State University
Project Start Date	1-Jan-14
Interns and/or Co-ops Start Date	1-Apr-14
Primary Contact - Individual must be authorized to sign grant contract and legally responsible as representative.	Thomas Sudkamp, Vice President for Curriculum and Instruction and Professor, 3640 Colonel Glenn Highway, Dayton OH, 45435, 937-775-2091, thomas.sudkamp@wright.edu
President/CEO Name	David Hopkins
Project Director/s	Joseph Slater, Associate Dean, 3640 Colonel Glenn Highway, Dayton OH, 45435, 937-775-5005, joseph.slater@wright.edu and Julie Miller, Development Officer, 7600 Lake Campus Dr, Celina, OH 45822, 419-586-0375, julie.miller@wright.edu
Are any of the applicants represented by a member of the Advisory Committee? See list at <a href="https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/omi/2013-14_CEIA.pdf">https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/omi/2013-14_CEIA.pdf</a>	NA
<b>1) Certification by Authorized Official:</b>	
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	
Ellen Reinsch Friese, Assistant Vice President for Research	
Date	11/18/13
<b>2) Administering Entity:</b>	
Thomas Sudkamp	
Vice President for Curriculum and Instruction	
3640 Colonel Glenn Highway, Dayton, OH 45435	
thomas.sudkamp@wright.edu	
<b>3) Business Partners (please submit separate information for each partner)</b>	
See separate sheet	
<b>4) Educational Partners (please submit separate information for each partner)</b>	
NA	

<b>5) Other Partners (please submit separate information for each partner)</b>					
None					
<b>Program Snapshot</b>			<b>Name, Number or Amount</b>		
JobsOhio key industry/ies –			Advanced Manufacturing, Aerospace & Aviation, Agribusiness & Food Processing, Automotive, Biohealth, Energy, Financial Services, Information Services & Software, Polymers & Chemicals		
JobsOhio region			Dayton		
Amount of state money requested			\$1,000,000		
Required match money committed (100% undergrad & 150% grad programs)			2,625,000		
Total state money requested divided by number of co-ops or internships created (in whole dollars)			\$3,164		
Total match money obtained divided by number of co-ops/internships created (in whole dollars)			NA		
Total money (state plus match) divided by number of co-ops/internships created (in whole dollars)			\$3,164		
Number of business partners			23		
Number of education partners			0		
Number of other partners			0		
<b>Add numeric value to each field below</b>					
	<b>TOTAL</b>	<b>Wages</b>	<b>Scholarships</b>	<b>Both wages &amp; scholarships</b>	<b>Not for credit</b>
<b>Internships created (proposed)</b>	0		0	0	0
<b>Co-ops created (proposed)</b>	316	\$2,625,316	\$400,000	\$3,025,316	0
<b>TOTALS</b>	316	\$2,625,316	\$400,000	\$3,025,316	0

**See following for business partners**

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Abstract:

Wright State University (WSU) respectfully submits this proposal to the Ohio Board of Regents Ohio Means Internships and Co-ops (OMIC) Program to continue the successes and expand the scope of the internship and co-op program established with the support of the current OMIC initiative. Wright State's Dayton and Lake Campus will combine with the Southwestern Ohio Council for Higher Education, a consortium of 20 institutions of higher education in Southwestern Ohio Council, to provide internship opportunities for students in the JobsOhio key industry categories: Aerospace and Aviation; Agribusiness and Food Processing; Advanced Manufacturing; Information Services and Software; Automotive; and Financial Services. The proposal requests \$1,000,000 to implement the OMIC objectives of providing high quality, focused internship and co-op experiences and developing the workforce to address the needs of the Ohio economy. This proposal is supported by 23 corporate partners who have committed to supporting 316 internships with \$2,482,653 in matching funds.

The plan put forth in this proposal will meet the objectives of the Ohio Means Internships and Co-ops program by:

- i) Expanding the scope of JobsOhio key industries supported Wright State internship and co-op programs
- ii) Developing new academic programs to produce graduates in the identified key industries
- iii) Growing the corporate partner base
- iv) Increasing for-credit internship opportunities in academic programs that support JobsOhio key industries
- v) Building the co-op and internship pipeline
- vi) Creating a culture of internships and co-ops at Wright State
- i) Developing the infrastructure that supports and sustains the preceding goals

The projects supported by the first OMIC program (OMIC I) and ongoing initiatives at Wright State provide the foundation for achieving the program objectives. Wright State University, the Southwestern Ohio Council for Higher Education, and our corporate partners are excited about the opportunity to leverage our resources with those provided by the Ohio Means Internships and Co-ops program to produce the workforce needed for the economic development of the Miami Valley and Southwestern Ohio.

**Dayton Means Internships and Co-ops – Wright State University (WSU)**

Relevancy	Total: ___ points
<p><b>Criteria 1:</b> How is the institution building partnerships with private companies to address emerging workforce needs?</p>	
<p><b>RESPONSE:</b></p> <p>The curricular programs and corporate partnerships that formed the basis of the OMIC I proposal focused on the aerospace and defense industries in the Dayton region and agriculture and advanced manufacturing at the Lake Campus in Western Ohio. This selection reflected the critical nature of these JobsOhio key industries to the economic development of the region and the State of Ohio. Wright Patterson Air Force Base, the largest single employer in Ohio, is the magnet that attracts major aerospace and defense contractors and is an incubator for local small business and start-up companies. The Lake Campus and its students serve the geographic heart of Ohio's agribusiness, the leading industry in the State of Ohio.</p> <p>These industries remain critical to the emerging Ohio workforce needs. The October 2013 data from Economics Modeling Specialists, Inc. highlight the employment openings (new positions and replacements) to the year 2020 in the WSU-OMIC II program region.</p> <p>Aerospace and Aviation: 3644 positions (521 annually)            Agribusiness and Food Processing: 7734 (1,105 annually)            Advanced Manufacturing: 7840 positions (1,120 annually)            Information Services and Software: 2634 positions (376 annually)            Automotive: 3,156 positions (451 annually)            Financial Services: 9,329 positions (1,347 annually)</p> <p>In the implementation of the co-op and internship programs supported by OMIC I, Wright State expanded beyond the proposed base of corporate partners to add companies such as Assured Information Security (Information Technology), Riverside Research (Information Technology), Emerson Climate (Advanced Manufacturing), Spintech (Automotive), Crown Equipment (Automotive, Advanced Manufacturing), and American Trim (Automotive). The letters of support accompanying this proposal reflect the expansion of our partnerships to new businesses and a variety of experiential learning opportunities for our students. The OMIC II proposal funds will permit the development of the infrastructure to support the current and future expansion of the key industries, corporate partners, and pipeline of students seeking internships and co-ops opportunities.</p> <p>To ensure that the programs are meeting the needs of the current employers, Lake Campus has established the Business Enterprise Advisory Board consisting of representatives from local companies that are OMIC partners. The Dayton campus program is in the process of establishing its advisory board. These boards meet regularly to review the policies and practices of the internship and co-op program and provide information on the future needs of industries in the area. In addition, feedback is provided from each company sponsoring a student upon completion of the co-op or internship.</p> <p>New corporate partners are solicited through a program of regular contacts including phone calls, mailings, and personal visits. A recent advertising campaign in the Dayton Business Journal and the Celina Daily Standard touted OMIC opportunities. At the Dayton campus, the Brandeberry Career Development Center has been created to serve as a home-base for industry representatives while on campus. The Wright State University College of Engineering and Computer Science has recruited a development officer with an extensive industry background who brings a wealth of ties and experience with regional industry.</p>	

**Criteria 2:** What steps will be taken to assist faculty with program development to ensure relevancy in the curriculum?

**RESPONSE:**

Program development is being led by Joseph Slater, who developed the WSU College of Engineering and Computer Science for-credit internship and co-op courses. Under Dr. Slater's leadership, those courses were approved by Departmental, College, and University Curriculum Committees prior to the start of OMIC I. The student training program begins with a one-credit introduction to internships and co-ops, followed by courses requiring development of learning objectives appropriate to the discipline and the level of the student. These courses have been integrated into five of the eight majors in the College of Engineering and Computer Science at the time of this proposal, and are under consideration for the other three majors. Prior to the impetus provided the OMIC program, no degree in engineering at WSU included for-credit co-op opportunities.

As part of the expansion of student opportunities for participation in OMIC supported co-ops, Dr. Slater has begun collaboration with faculty in Wright State's Raj Sooin College of Business to explore incorporating for-credit internships and co-ops in the JobsOhio key financial services sector.

The Lake Campus faculty developed the Bachelor of Technical and Applied Study degree program (approved by the Ohio Board of Regents in 2012). Students in this new four year degree program will be eligible for OMIC internship and co-op support in the Advanced Manufacturing and the Information Services and Software industries. The faculty are currently proposing additional programs in agricultural sciences to support the Agribusiness and Food Processing industry. The Raj Sooin College of Business is extending their four year business degree courses to the Lake Campus, beginning in the fall of 2014. Lake Campus students now have nine bachelor degree options with all courses delivered at the Celina campus.

Integration of student and employer experiences into curricular development will begin during OMIC II, after the assessment information from students and employers participating in the program become statistically relevant. Details of the assessment process are given in the response to relevancy criterion 4. Information from students and employers will be regularly shared with the chairs, faculty, and curriculum committees of the participating departments.

Employer feedback has already identified the need for some specific skill sets that are not part of traditional undergraduate programs. One example is the training of electrical engineering students to use CAD (computer added drawing) tools. Familiarity with CAD tools is required for mechanical engineering students, but is rarely found in electrical engineering programs. However, business partners have indicated that electrical engineering students with this skill are highly sought after. As a result of this employer feedback, we are working with the Mechanical Engineering Department to offer a weekend not-for credit short course introducing the basics of CAD software to better prepare our electrical engineering students for their internship or co-op experience and increase their competitiveness in the workforce. The development of short, focused courses to provide skills identified by employers can be accomplished more rapidly than degree program modifications, which provides the ability to react quickly to specific employer needs and industry trends.

**Criteria 3: How is the proposal integrated into the strengths of the regional economy?**

**RESPONSE:**

As noted previously, initially Dayton campus efforts centered on aerospace and defense industries while Lake Campus developed partnerships in agriculture and advanced manufacturing. Over the past year, relationships have grown at both campuses both in number and in scope. The growth in the number of internships and co-ops committed from the OMIC I proposal to the current proposal indicates the business community recognition and support for the development of the workforce in these areas. The Economics Modeling Specialists, Inc. data indicated that there will be over 2,000 openings annually in the key industries.

The Wright State OMIC internship and co-op program ensures alignment with local needs through interaction with local business groups and organizations. As with OMIC I, we expect the number of corporate partners to grow substantially during the duration of the grant. We have initiated a relationship with the Dayton Regional Manufacturer's Association, have developed contacts with the Miami Valley Human Resource Association, and are working to obtain representational participation in other similar regional industry and employment organizations. Dr. Joseph Slater has recently been nominated chair of the Dayton Defense workforce development committee and is the director of the Aerospace Professional Development Center. Ms. Julie Miller, Co-Principal Investigator at Lake Campus, the Development Officer for the Western Ohio Education Foundation. Dr. Thomas Sudkamp, the program Principal Investigator, is a member of the Board of Directors of the Dayton-Wright Chapter of the Armed Forces Communications and Electronics Association. These positions provide a channel to local businesses ensuring that defense and aerospace needs are well understood by the program and fed back into Wright State University's degree and training programs. Also, the Lake Campus region has engaged economic development leaders and K-12 partnerships with industry to build the "Hometown Opportunity" program and social media sites that shares job demand information and connects students to the area training and degree offerings

At the Lake Campus, regional economic development leaders are engaged to ensure that our targeted industries needs are being identified and served through the OMIC program. Visits to area career centers, high schools and community colleges have built new awareness of career directions, and demands so that we can engage with faculty and students in these specific areas. We have also invited industry people into the classroom to speak about jobs and career directions in the workplace.

To broaden student employment horizons, we are working with Monica Dimitriu at the Ohio Aerospace Institute and James Free, Director NASA Glenn Research Center, to use the co-op program to enhance and build state-wide collaboration between Dayton regional Aerospace Industry and Cleveland industries typically affiliated with the NASA Glenn Research Center.

**Criteria 4: What steps will the institution take to regularly assess and improve student learning outcomes?**

**RESPONSE:**

At the beginning of each term, students develop learning objectives for the semester in consultation with their work supervisor and their Wright State co-op instructor. A mid-course

assessment will provide the opportunity to adjust the learning objectives as appropriate. During the semester, students are required to be in regular contact with the co-op instructor to continue developing employment skills, including but not limited to resume writing/updating, interviewing, cover letter writing, appropriate dress, email etiquette, development of career goals, career goal education, and use of modern tools (e.g. ohioeansinterns website, LinkedIn) for professional communication and employment, etc.

At the end of the term, students complete a four page assessment of their experience including an evaluation of the relevancy of the internship or co-op experience to their degree, their preparation for the work experience, and feedback to improve the internship and co-op program itself. Furthermore, students are asked to provide an assessment of the contribution of the work experience to their attainment of the learning outcomes required for the accreditation of their academic program (e.g. Ability to learn independently; Ability to provide oral progress reports; Recognize the need for and ability to engage in life-long learning; ...).

Students are also required to provide documentation of their accomplishments during employment. The documentation is reviewed by faculty to judge the relevancy of the co-op experience to the student's academic program. An annual Celebration of Co-ops and Internships will be developed as part of the OMIC II project. At this event, students will present a summary of their work experience and the achievement of their learning objectives to faculty, employers, and other students.

Employers complete a similar appraisal of the student and the co-op program. A comparison of student and employer evaluations provides the ability to recognize potential disconnects between what the student thinks they can or have done versus the employer's view. This information provides valuable feedback for use in continuous improvement of degree program of the student.

In addition to the surveys of students and employers immediately following the internship or co-op experience, information will be obtained through the post-graduation employer and alumni surveys that are routinely employed for accreditation and program assessment. This will permit the evaluation and comparison of the opinions of employers participating in the internship and co-op program with the much broader group of post-graduation employers.

**Criteria 5:** How will work-based learning opportunities be integrated into students' academic programs to bridge to their career goals?

**RESPONSE:**

As part of OMIC I initiatives, five of the eight undergraduate degree programs in the College of Engineering and Computer Science have incorporated internship and co-op experience into their degree programs as for-credit recommended electives. First year students in academic programs participating in the OMIC program will be introduced to the importance of work experience in the introductory freshman course. Transfer students into these programs will be contacted upon admission with information concerning OMIC internship and co-op opportunities. An objective of OMIC II proposal is to extend for-credit internship and co-op opportunities to additional programs in the College of Engineering and Computer Science and the Raj Soin College of Business.

An elective introduction to internship and co-op course has been developed to prepare incoming

students for employment during the summer following their first year. This course dramatically increases the pipeline of students prepared to participate academically supervised work-based learning.

Internships and co-ops will be highly promoted for students through a coordinated effort including faculty, academic advising, and career services. However, because of the demographics of the Wright State students, internship and co-op participation will continue to be an elective option in the degree programs. Thirty percent of the students entering an undergraduate engineering program are age 22 or over and more than 50% of the graduates are over age 25. These students frequently obtain relevant work experience prior to entering college or by pursuing the degree as a part time student. These students have the opportunity to complete the degree by taking additional elective courses.

To enhance the pipeline of students and integrate the internship and co-op opportunities into students' programs, the Ohio Board of Regents sponsored Choose Ohio First Scholarship Program (COF) program at Wright State will coordinate with the OMIC program to create a synergy in supporting students in STEM disciplines and JobsOhio key industries. Under the new Wright State COF II program, priority will be given to the JobsOhio key industries supported by the OMIC proposal. All new COF scholarship recipients will receive an orientation describing on OMIC program and continuing notifications of internship and co-op openings. This will increase the OMIC pipeline by approximately 250 students with outstanding academic credentials per year.

Sustainability	Total: __ points
<b>Criteria 1:</b> What is your financial plan and budget to support the program beyond the grant period?	
<b>RESPONSE:</b>	
<p>Financial support for the program will be provided by tuition revenue from students enrolled in the program. Using 2013 Wright State University tuition rates, tuition for a single credit hour is \$386 for an undergraduate student and \$577 for a graduate student. Three colleges dominate participation in the program as a result of the defined JobsOhio areas, each in differing stages of internship and co-op program development.</p> <p>The College of Engineering and Computer Science is the lead college, with two staff already hired, one supported under OMIC I, dedicated office space, and workforce development space is currently being created. The three-year goal for the program in the College of Engineering and Computer Science is to have an enrollment of 500 students per year in the program. Given the historical mix of full-time to part-time work, and the ratio of undergraduate to graduate students, we estimate that the program will generate \$1.6M tuition revenue for the University. A spreadsheet in the appendix shows the numbers.</p> <p>Considering the funding model that the university is developing (often referred to as Responsibility Centered Management), this would result in availability to the program of \$1.2M to support 500 students continuously in the program. A portion of this revenue will cover salary for faculty supervisors, amounting to approximately \$190,000, plus travel costs, estimated to be \$80,000 for site visits. This will leave \$900,000 for support of the center staff, facilities, and</p>	

resources. We anticipate setting aside a portion of this for tuition scholarships once the program is developed to lower the financial burden on participating students, with the goal of running the office at a cost of \$400,000 with a staff of one director, four coop advisors, administrative support, and student workers. Further, companies have inquired regarding cost of their participation in our program. We have yet to leverage this opportunity (while we are still developing a plan) and anticipate recouping an amount equal to the tuition paid by the students in the program, hopefully completely mitigating the financial burden on the students. Costs will be kept low by leveraging staff as much as possible in running the co-op courses, with faculty working with students and companies where specialized professional knowledge is necessary. The total average cost to support a student for a semester is estimated at \$450 (regardless of number of credit hours), which is revenue neutral for an average credit hour registration of 1.5 credit hours. This is consistent with a survey of universities that require a registration for at least 1.5 credit hours.

Similar growth and funding is anticipated in the College of Science and Mathematics and the Raj Soin College of Business as they follow the lead of the College of Engineering and Computer Science in developing internship and co-op program offices. We expect the OMIC supported JobsOhio internships and co-ops to transition from the College of Engineering and Computer Science infrastructure in the third year when the sustainable funding model has been achieved.

**Criteria 2:** What program assessment actions will be taken to improve and grow learning outcomes for students, business participation, and overall program success?

**RESPONSE:**

Assessment of each student is performed by the employer at the end of each semester to provide specific individual feedback of each student's performance and preparation. The assessment survey is included in the appendix. Feedback from these surveys will be compiled and provided to the chairs, faculty and curriculum committees of each department. In addition, an analysis of the survey results and recommended actions will be integrated into the continuous improvement process established by each department required for ABET accreditation. This will ensure that employer observations of student performance are reviewed by faculty and considered in curricular modifications in conjunction with other solicited feedback. The survey results will also be reviewed by the co-op program staff and director to inform updates to educational activities for subsequent terms following the process developed under OMIC I.

The Dayton Campus is in the process of developing an advisory designed to provide a broad representation of the JobsOhio key industries as well as substantial representation of companies that have hired graduates from the co-op programs. The Lake Campus has already established its advisory board. The advisory boards will be charged with assessing the feedback from employers and recommending operational changes to the center that will make it a better resource for matching students and industry. The director will be charged with addressing each of the recommendations and reporting back at the subsequent meeting of the advisory board, item by item, regarding the response to each recommendation. In addition, every department participating in the OMIC internship and co-op program has an industrial advisory board which will also be consulted for input on the program.

The lead investigators on this proposal already have positioned themselves in key industry organization positions to receive ad hoc feedback on the program. Examples include boards/committees of Dayton Defense, AFCEA, and the WOE (Western Ohio Educational

Foundation).

Further, Wright State has prioritized the development of a university level organization encompassing employment, internships, and continuous education and training in order provide an integrated solution for industry workforce needs.

**Criteria 3:** What are the plans to support the program through infrastructure, advising and data management?

**RESPONSE:**

The financial resources have been discussed in response to sustainability criterion 1, with an expected \$450 per student generated, allowing the office to be self-sustaining under the university's developing responsibility centered management budget model.

Wright State University has an employment matching database system housed in our career services office that is available to all students and alumni. We will also utilize the local Hometown Opportunity website that has been very successful in the Lake Campus region. In the introductory internship co-op course we will continue to train students in the use of the OhioMeansInternships.com, the Wight State Career Services Office, and in learning to leverage networking through LinkedIn, where our alumni often announce positions. Student workers have been included in our proposal to support industry in posting their positions in all three so that we can relieve industry of the cost of working with multiple systems, while we will continue to encourage them to use OhioMeansInternships.com, along with sister site OhioMeansJobs.com, on their own.

Institutional systems are already designed to be able to track students registered for co-ops provided that they posted through our system. The challenge will be finding, tracking, and engaging students who seek employment opportunities independently without benefiting from the advising, position matching, and for-credit opportunity provided by participation in the OMIC internship and co-op program. We are hopeful that capabilities requested at an earlier OMIC I meeting will eventually allow us to contact our students registered in OhioMeansInternships.com.

**Criteria 4:** How will the institution develop and sustain its faculty engagement?

**RESPONSE:**

Faculty will initially be trained by the director and the faculty co-PIs in the objectives and expectations of the program, the requirements of the students, and the role of the faculty supervisor in the internship and co-op program. Center funds will be available to provide a one-day short course, educating faculty more broadly about educational, welfare, safety, and privacy issues associated with internships and co-op programs that are atypical of the classroom environment to which they are more accustomed. Examples of services that faculty need a better understanding of include that variety of advising services available by department or degree programs, counseling services, financial aid and international studies. We will leverage the experience of faculty from disciplines in which internship and student workplace-learning is embedded into the program, such as nursing, teaching, and social work. Center funds will be utilized to ensure participation from a broad range of expertise available from parallel programs.

Sustaining faculty engagement will be achieved by recognizing the contribution in the annual performance. Further, academic year faculty have voiced enthusiasm for the reality that most of the co-op positions will likely occur during the summer (when faculty are unpaid), providing an additional source of income.

While research oriented faculty may not be sufficiently enticed by potential summer salary, the co-op program has already demonstrated an additional benefit to faculty. The relationship developed by faculty and the sponsoring company provides a personal connection that can develop into ongoing research or contractual relationships. This benefit has been seen under OMIC I, leading to closer relationships with numerous industry partners.

**Criteria 5:** How will the institution develop and sustain its capacities in job development, and business participation

**RESPONSE:**

Integration of the PI and co-PIs of this grant into respective regional workforce development and other industry groups will play a key role in ensuring the university is actively involved in all regional job development issues. Even during sequestration and budget impasses, Dayton Defense declared that the biggest crisis is in workforce development, specifically training and retaining the best students and graduates in the Miami Valley. Wright State University through the OMIC II program will work with the region's employers individually and en masse to develop co-op opportunities and consequently the workforce needed for the region's economic growth.

The Air Force Research Lab is setting an example for regional employers by hiring students after an associate's degree and subsequently sending them back to college to obtain bachelor's degrees. Corporations such as MLPC and Reynolds and Reynolds have invested substantially in Wright State in order to build and attract the highly skilled workforce that they need.

The way that the OMIC Internship and Co-op Center will differentiate ourselves is to go beyond job placement to job development. Building and maintaining trusted relationships with employers will enable us to work as a team to develop opportunities for individuals with the ability, skills, and background to meet the immediate and long term employment needs of the company. The reality of many job postings is that they are often either too idealistic, with too great expectations, or not as descriptive as they intend to be. Putting students in front of employers in non-threatening regular employer/student social and professional training activities will allow employers to learn about the students behind the resumes, and consider how the student and company can mutually benefit from the co-op and potential employment opportunity, instead of focusing on purely whether a student fits a predetermined job description. Our job development personnel consider openings posted by employers as an opportunity to best match the company needs with the student workforce for the benefit of both.

**Budget Narrative**

Given that the Wright State University Coop Office does not yet exist, the predominant portion of the budget is focused on growing staff members to develop the office infrastructure to both grow

and sustain the program. Funding for one staff member from the Dayton Campus and one half staff member from Lake Campus, both coop advisors, currently supported under OMIC I is requested to continue through the two years of OMIC II. The addition of two full time staff coop advisors is requested to bring the advising case load to 85 interns per advisor, which will be a sustainable case load for for-credit students. The case load is reduced from what it perhaps could be because a) the intern advisors will also rotate responsibilities for running/hosting the introduction to internship course and the rotating guests from industry, requiring a substantial degree of coordination, and b) they will have a substantial role in supporting companies needs in posting to ohio means internships, and supporting the director in growing outreach to industry. To support them in clerical tasks, funding for three student workers (likely undergraduates from the WSU HR program) are requested. We have further requested a graduate student, with matching support supplied by the university (not meeting any match requirement), to act as our own intern and develop an intern advisor that we believe will need to be added the year after conclusion of OMIC II.

This will bring the entire internship support for two campuses, including operation of the new internship center, to 3.5 intern advisors, one graduate assistant, 3 undergraduate student workers, and a director (funded by the university).

No funding has been requested for the co-PIs on the proposal, which will retain oversight responsibility for the grant.

\$8400 has been requested to cover the cost of travel to sites for developing relationships with industry, while we have substantially increased our funding request for marketing relative to OMIC I to \$15000, which approximates the actual OMIC I expenditures for marketing.

The total of these items represent the infrastructure request of \$520,000.

\$400,000 is requested to offset tuition costs for students. This will encourage students to register for the courses, and encourage faculty to incorporate the courses into their program without the concern of costs to the students. It is expected that the costs will be substantially mitigated in future years through corporate donations, planned budgetary availability creating scholarship dollars, and tuition coverage by employers. The primary challenge and goal for WSU in OMIC II is full incorporation of for-credit workplace learning into the broadest array of degree programs possible. Mitigating the cost to students is the best way to encourage faculty to support that objective and drive students into the program.

The costs of construction of the internship center in the College of Engineering and Computer Science will be covered in whole by the College itself, with the anticipation of recouping the funds through tuition paid by students during OMIC. Materials and supplies have been requested, however, for computers, and basic office supplies, to allow the center its own budget line separate from the college general funds prior to the arrival of support funds derived from tuition.

## Budget Narrative:

Given that the Wright State University Internship and Co-op Office does not yet exist, the predominant portion of the budget is focused on establishing the staff to develop the office infrastructure to both grow and sustain the program. Funding for one staff member from the Dayton Campus and one half staff member from Lake Campus, both co-op advisors, currently supported under OMIC I is requested to continue through the two years of OMIC II. The addition of two full time staff co-op advisors is requested to bring the advising case load to 90 interns per advisor, which will be a sustainable case load for students participating in the for-credit programs. The case load is reduced from what it perhaps could be because:

- a) the advisors will share responsibilities for offering the introduction to internship and co-op courses, creating the pipeline of students through class visits, orientations, and presentations across campus, hosting guests from industry, and
- b) they will have a substantial role in supporting company needs in creation and posting of openings, selection and evaluation of students, and supporting the director in growing outreach to industry.

Funding for three undergraduate student workers is requested to provide clerical support for the co-op advisors. We have further requested a graduate student, with matching support supplied by the university to act as our own intern and with the goal of training a co-op advisor that we believe will need to be added the year after conclusion of OMIC II. This will bring the entire OMIC co-op and internship support for two campuses, including operation of the new internship center, to 3.5 intern advisors, one graduate assistant, 3 undergraduate student workers, and a director (funded by the university).

No funding has been requested for the co-PIs on the proposal, who will retain oversight responsibility for the grant. \$8,400 has been requested to cover the cost of travel to sites for developing relationships with industry, while we have substantially increased our funding request for marketing relative to OMIC I to \$15,000, which approximates the actual OMIC I expenditures for marketing. The total of these items represent the infrastructure request of \$520,000.

\$400,000 is requested to offset tuition costs for students. This will encourage students to register for the courses, and encourage faculty to incorporate the courses into their program without the concern of costs to the students. It is expected that the costs will be substantially mitigated in future years through corporate donations, planned budgetary availability creating scholarship dollars, and tuition coverage by employers. The primary challenge and goal for WSU in OMIC II is full incorporation of for-credit experiential learning into the broadest array of degree programs possible. Mitigating the cost to students is the best way to encourage faculty to support that objective and drive students into the program.

The costs of construction of the internship center in the College of Engineering and Computer Science will be covered in whole by the College itself, with the anticipation of recouping the funds through tuition paid by students during OMIC. Materials and supplies have been requested, however, for computers, and basic office supplies, to allow the center its own budget line separate from the college general funds prior to the arrival of support funds derived from tuition.

Budget

Activity	Total	Regents Funds	Business Funds*	Applicant Funds	Education Partner Funds	Name of Education Partners	Other Partner Funds	Name of Other Partners
Personnel	\$465,199	\$465,199						
Supplies	\$8,001	\$8,001						
Purchased Services								
Travel	\$16,800	\$16,800						
Scholarships	\$400,000	\$400,000						
Employer Salaries	\$2,477,150		\$2,477,150					
Other Employer Contributions	\$147,850		\$147,850					
Other (Describe)	\$30,000	\$30,000						
Subtotal	\$3,545,000	\$920,000	\$2,625,000					
Indirect Costs 8% or less	\$80,000	\$80,000						
<b>TOTAL</b>	<b>\$3,625,000</b>	<b>\$1,000,000</b>	<b>\$2,625,000</b>					

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

Business Partner Snapshot

Employer Name	Total Intern & Co-op Wages	# of Intern Positions	# of Co-op Positions	Amount of Other Employer Contributions
Advratech	50400	0	9	45000
Applied Optimization	136080	0	30	0
BWI Group	30000	0	10	0
Celina Insurance Group	50400	0	6	0
Crown Equipment	169050	0	25	0
D'Angelo Technologies	35280	0	6	37314
Intelligrated	768000	0	8	0
JXT Applications	23520	0	4	0
Materials Resource, Inc.	23520	0	4	0
Mound Laser and Photonics Center	30240	0	5	0
Nider-Minster Group	163840	0	16	65536
Oculii	36000	0	9	0
PQ Systems	72000	0	18	0
Reynolds + Reynolds	168000	0	40	0
Riverside	34400	0	15	0
Sloane Gear International	102000	0	9	0
SOCHE	483750	0	81	0
Systematic Solutions, Inc.	14560	0	4	0
Teradata	16000	0	3	0
Tridac Tech	20160	0	6	0
UES	20160	0	3	0
Valtronic	23520	0	4	0
Xylem	6270	0	1	0
	<b>2477150</b>	<b>0</b>	<b>316</b>	<b>147850</b>
	<b>23</b>			



Date: November 14, 2013

Advratech LLC  
2154 Liberty Rd  
New Carlisle, OH 45344

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Advratech LLC, a research, development, and technology commercialization firm is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Advanced Manufacturing, Aerospace & Aviation, Biohealth, Financial Services, Information Services & Software, and R&D. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, Advratech will provide 3 undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$6,720 per student per semester and 6 graduate semesters at a paid rate of \$5,040 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds. Additionally the company anticipates in-kind contributions for training, lab facilities, and other discretionary and benefit costs of approximately \$45,000. This proposal is subject to economic conditions and availability of funds.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Graham", with a long horizontal line extending to the right.

Eric Graham  
President



**www.appliedO.com**

714 East Monument Avenue, Suite 204

Dayton, OH 45402

Phone: (937) 431-5100 Fax: (937) 431-5200

E-mail: [katy.keenan@appliedO.com](mailto:katy.keenan@appliedO.com)

November 12, 2013

**Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University**

Dear Chancellor Carey and Distinguished Panel Members:

Applied Optimization (AO) is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Advanced Manufacturing, Aerospace & Aviation, Information Services & Software, and Business Functions (Accounting, Payroll, Human Resources, Contracting, etc.) We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2016, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, Applied Optimization will provide 27 Undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$4,480 per student per semester and 3 Graduate semesters at a paid rate of \$5,040 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Applied Optimization, Inc., is an Engineering Research and Development firm whose core expertise is the technology development and expertise to solve problems of estimation, process modeling, and operational methodology. We use complex mathematical algorithms and scientific principles to produce simulated effects and to project results for conditions that cannot be readily tested in a physical laboratory.

Sincerely,

**Catherine M Keenan**

Digitally signed by Catherine M Keenan  
DN: c=US, o=DST ACES Business Representative, ou=APPLIED  
OPTIMIZATION INC, cn=Catherine M Keenan,  
0.9.2342.19200300.100.1.1=A01096A00000133ACF77999000086C  
C  
Date: 2013.11.13 09:25:35 -05'00'

Catherine Keenan  
Finance Manager

November 13, 2013

BWI Group  
3100 Research Blvd.  
Kettering, OH 45420

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

BWI Group is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area/s of Mechanical Engineering, Electrical Engineering, Embedded Software Engineering, and Manufacturing Engineering. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, BWI Group will provide 10 new undergraduate co-ops during this grant with a paid stipend of approximately \$3,000 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

BWI Group is a premier chassis supplier that designs and manufactures brake and suspension systems for the global transportation market. We have 3 technical centers in the US (2 in Dayton, OH and 1 in Brighton, MI), employing approximately 300 engineers in a variety of technical disciplines.

Sincerely,



Josie Wolfe  
Human Resources Representative

Ohio Means Internships & Co-ops Grant

The National Mutual  
Insurance Company,

employer for Celina  
Insurance Group

1 Insurance Square  
Celina, Ohio 45822  
419-586-5181  
800-552-5181  
Fax: 419-586-8989

*Since 1914*

*November 14, 2013*

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant -  
Wright State University

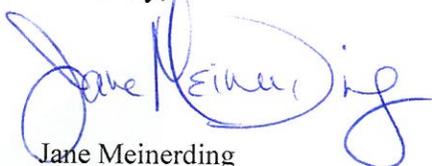
Dear Chancellor Carey and Distinguished Panel Members:

**Celina Insurance Group** is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area of Financial Services, and Information Services & Software. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, Celina Insurance Group will provide a minimum of six undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend estimated at \$15.00 per hour per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Sincerely,



Jane Meinerding  
Vice President of Human Resources



**Equipment Corporation**

New Bremen, Ohio 45869 USA  
Tel 419 629 2311 Fax 419 629 2900

crown.com

11/14/13

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Petro and Distinguished Panel Members:

Crown is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area/s of Engineering, Marketing, Business, Supply Chain, Computer Science etc. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from January 2014–December, 2015 will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, Crown will provide 6 Undergraduate semesters of new undergraduate co-ops during this grant approx. 25 positions at a paid rate of an average of \$16.10 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, subject to availability of funds.

Crown Equipment Corporation designs manufactures, distributes, services and supports material handling products that provide customers with superior value. Crown has a network of factory direct sales and service dealers doing business as Crown Lift Trucks. As one of the world's largest lift truck manufacturers, Crown is focused on providing solutions that mean improved performance for our customers.

Sincerely,

**Andrea Huber**  
**Personnel Representative**  
**Crown Equipment Corporation**



*14 November 2013*

***D'Angelo Technologies, LLC (D5T)***  
***444 East Second Street***  
***Dayton, Ohio 45402***

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant

Dear Chancellor Carey and Distinguished Panel Members:

D'Angelo Technologies, LLC (D5T) is excited to again partner with Wright State University (WSU) to increase student internships and co-ops in the JobsOhio key areas of Advanced Manufacturing, Aerospace & Aviation Agribusiness & Food Processing, Automotive, Biohealth, Energy, Information Services & Software, Polymers & Chemicals, and Business Functions. We pledge to continue our collaboration with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students. The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, D'Angelo Technologies, LLC, will provide up to three undergraduate semesters of new undergraduate co-ops during this grant with a total paid stipend of \$6720 per student per semester (of undergraduates working 40 hour a week co-ops per semester, \$3,360 from D5T with a match of \$3,360 from WSU) and up to three graduate semesters at a paid rate of \$5,040 per student per semester (of graduates working 20 hours per week in conjunction with their studies, \$3,024 from D5T with a match of \$2,016 from WSU). Of the undergraduate and graduate stipends, the grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds. Other match contributions my business will make to this grant include mentorship support, company software and hardware use, and associated travel to promote student growth and experience. This additional match contribution is estimated at \$37, 314. D5T is committed to the sustainability of the internship/co-op programs offered through Wright State University.

D5T is pleased to partner with Wright State University to connect more Ohioans to internships, cooperative education and employment. D5T, with headquarters in Beavercreek, Ohio, is a small, woman-owned business that provides engineering R&D capabilities to the DoD community, civil, and commercial clients. D5T is a leader in Virtual Reality Development and Integration and high-quality technical solutions focusing on Research and Development; Design, System and Process Engineering; Lean/Six Sigma; Modeling, Simulation and Analysis; Strategic Planning and Execution; Business and Market Plan Development; Reliability, Maintainability, and Availability Analysis; System Design Documentation & Technical Data; Reverse Engineering and Design; Quality Assurance; Training; Program Management; Team Building; Biomedical Engineering; Training Assessment and Implementation; and Product Testing, Evaluation and Recommendation.

Sincerely,

A handwritten signature in black ink that reads 'Maurissa D'Angelo'.

***Maurissa D'Angelo, CEO – D'Angelo Technologies, LLC***



*Date: 11/15/2013*

*Company Name: Intelligrated  
Address: 7901 Innovation Way  
City State Zip: Mason, OH 45040*

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

*Intelligrated* is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key *areas of Advanced Manufacturing, Information Services & Software, and Business Functions*. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, *Intelligrated* will provide **8 semesters** of new undergraduate co-ops during this grant with a paid stipend of \$9600 (\$15/hr) per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Intelligrated is a leading North American-based, single-source provider of intelligent automated material handling solutions that drive distribution and fulfillment productivity for retailers, manufacturers and logistics providers around the world. Through a broad portfolio of automation equipment, software, service and support, Intelligrated solutions optimize processes, increase efficiency and give businesses a competitive edge.

Intelligrated designs, manufactures, integrates and installs complete material handling automation solutions including conveyor systems, sortation systems, palletizers, robotics and order picking technologies – all managed by advanced machine controls and software. Solutions include industry-leading Intelligrated-manufactured Alvey<sup>®</sup>, RTS<sup>™</sup> and IntelliSort<sup>®</sup> brand equipment and Knighted<sup>®</sup> warehouse management (WMS), warehouse control (WCS) and labor management software.

Sincerely,

*Sam Russell, Recruiting Specialist at Intelligrated*

A handwritten signature in black ink, appearing to read 'S. Russell', written over a light blue horizontal line.



**Date: 11/12/2013**

**Company Name: Intelligrated**  
**Address: 7901 Innovation Way**  
**City State Zip: Mason, OH 45040**

**Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University**

Dear Chancellor Carey and Distinguished Panel Members:

*Intelligrated* is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key **areas of Advanced Manufacturing, Information Services & Software, Logistics, & R&D.**) We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, *Intelligrated* will provide **an opportunity for numerous Undergraduate semesters** of new undergraduate co-ops during this grant with a paid stipend of \$9600 (\$15/hr) per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Intelligrated is a leading North American-based, single-source provider of intelligent automated material handling solutions that drive distribution and fulfillment productivity for retailers, manufacturers and logistics providers around the world. Through a broad portfolio of automation equipment, software, service and support, Intelligrated solutions optimize processes, increase efficiency and give businesses a competitive edge.

Intelligrated designs, manufactures, integrates and installs complete material handling automation solutions including conveyor systems, sortation systems, palletizers, robotics and order picking technologies – all managed by advanced machine controls and software. Solutions include industry-leading Intelligrated-manufactured Alvey®, RTST™ and IntelliSort® brand equipment and Knighted® warehouse management (WMS), warehouse control (WCS) and labor management software.

Sincerely,

**Sam Russell, Recruiting Specialist**

A handwritten signature in black ink, appearing to read 'S. Russell', written over a light blue horizontal line.



1195 Meadow Bridge Drive, Suite C  
Beavercreek, Ohio 45434-4302

12 November 2012

JXT Applications, Inc.  
1195 Meadow Bridge Drive, Suite C  
Beavercreek, OH 45434-4302

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

JXT Applications, Inc. is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area/s of Aerospace & Aviation, Information Services & Software, and Business Functions. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, JXT Applications, Inc. will provide two (2) semesters of new undergraduate co-ops during this grant with a paid stipend of \$6720.00 per student per semester and two Graduate semesters at a paid rate of \$5040.00 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds. Other match contributions my business will make to this grant are \$0.00 at this time.

JXT Applications, Inc. is an Ohio for-profit Veteran Owned Small Business with offices in Beavercreek OH. We perform research and development projects in the primary disciplines of Cognitive Science, Human Factors/Human-Computer Interfaces and Training (e-learning and mobile learning applications) with a supporting discipline of Computer Science for government laboratories and commercial clients. Throughout our corporate history we have employed WSU students to support our work requirements and expect to continue to do so in the future.

Sincerely,

Terrell W. Fulbright  
President/CEO

*Date: 11/15/13*

*Nidec-Minster Corporation  
240 West Fifth Street  
Minster, Ohio, 45865*

**Subject:** Statement of Support for the Ohio Means Internships & Co-ops OMIC-II Grant,  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

*Nidec-Minster* is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key *areas* of **Advanced Manufacturing, Financial Services, Information Services & Software, Business Functions (Back Office, Headquarters & Consulting, Logistics, & R&D).**

We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from January 2014 through December, 2015 will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, *Nidec-Minster* will provide up to **16 Undergraduate semesters** of new undergraduate co-ops during this grant with a paid stipend of \$10,240 per student per semester (**Total Wages = \$163,840**), the total based upon qualified WSU students available for Co-op/Internship hire.

Also, at this time, **0 Graduate semesters** at a paid rate of 0 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Other match contributions my business will make to this grant are **in-kind company expenses**, equaling 40% of the total student wage amount , totaling **\$65,536**.

**Nidec-Minster Corporation** is a major West Central Ohio advanced manufacturing company, located at 240 West Fifth Street in Minster, Ohio, 45865. The company has been in business over 117 years, and is a premier manufacturer of material forming presses, coil line equipment, controls and related software, which are world famous for their high quality, reliability, ruggedness, and high precision. Nidec-Minster presses are operating in 87 countries and all 50 US States. High precision castings, weldments, and machined parts are also manufactured within the Nidec-Minster Midwest Division.

Sincerely,

Mr. Brian Styer  
HR Manager; Employee Relations  
Nidec-Minster Corporation  
240 West Fifth Street  
Minster, Ohio, 45865

Mr. Daniel A. Schoch P.E.  
Future Workforce Development  
On Behalf of Nidec-Minster  
240 West Fifth Street  
Minster, Ohio, 45865



• 2941 College Dr. Kettering, Ohio 45420 • (P)937.865.3730 • (F)937.865.3680 • kevinhartke@mlpc.com

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November 11, 2013

Subject: Statement of Support for the Ohio Means Internships & Co-ops Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Mound Laser & Photonics Center Inc (MLPC) is honored to participate and support the Ohio Means Internship and Co-op program. Our intern/co-op participation will target additional jobs in the JobsOhio key area of Advanced Manufacturing. We agree to work with Wright State University to coordinate the placement process, provide paid internships or co-ops, play a role in the evaluation of the student, and support the training and recruitment of students.

MLPC has had an active intern and co-op program over the past 11 years, which has included over 30 interns and co-ops working for the company with over 10 hired into full time positions.

Our participation in the past and increased participation in the future, demonstrate our commitment and how much we believe additional student internships and co-ops will result in an increase of graduates in the critical fields of Advanced Manufacturing.

MLPC will provide three additional undergraduate (at \$6,720 per semester) and two additional graduate (at \$5,040 per semester) internships or co-ops between January and December, 2014. Thus, the total commitment from the state is \$42,336 with a match from MLPC of \$48,384. This proposal is subject to economic conditions and availability of funds.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Hartke".

Kevin Hartke  
President and COO



Materials Resources LLC

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MRL Letter for the Ohio Means Internships & Co-ops Grant  
Submitted by Wright State University

Date: 11/13/2013

Materials Resources LLC (MRL)  
714 E Monument ave  
Suite 130,  
Dayton, OH 45402

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

MRL is excited to partner with Wright State University to increase student internships and co-ops in the Jobs Ohio key areas of *Advanced Manufacturing, Aerospace & Aviation Information Services & Software*. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, MRL will provide 2 of Undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$6,720 per student per semester and 2 of Graduate semesters at a paid rate of \$5,040 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

MRL has the right and responsibility to increase or decrease the resources stated above if the market conditions are less than optimal or if employment needs change.

MRL is an industry leading company in Aerospace Material Informatics and materials characterization. MRL utilizes state of the art characterization tools such as scanning electron microscopy and electron backscatter diffraction. We are also specialized in modeling the effect of processing variability on the variability of properties. MRL's tools are part of an Integrated Computational Materials Engineering (ICME) framework.

Sincerely,

Ayman Salem, PhD  
CEO

Materials Resources LLC  
(phone) 937-531-66577; (fax) 937-660-6868  
[Ayman.salem@ICMRL.net](mailto:Ayman.salem@ICMRL.net)  
[www.ICMRL.net](http://www.ICMRL.net)

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Materials Resources LLC, P.O. Box 341091, Dayton, OH 45434, Tel:937-469-0918. Fax:937-660-6868



November 17, 2013

Oculii LLC  
830 A Space Dr.  
Beavercreek, OH 45434

**Subject:** Statement of Support for the Ohio Means Internships & Co-ops Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Oculii's is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Aerospace and Aviation, and Information Technology. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions , Oculii will provide three graduate internships or co-ops with a paid stipend of \$4,000 per student per semester. The grant will match with a stipend of up to 40% per student per semester, subject to availability of funds. For three students, the total contribution from Oculii will be \$36,000, with the state matching \$14,400 for a total compensation to all students of \$50,400.

As a leading firm in sensor information exploitation technologies, Oculii LLC specializes in innovative sensor development and sensor-based information processing systems. In particular, Oculii has established a strong foothold in a niche technology of integrating radio frequency (RF) sensors with electro-optical (EO) sensors and has developed a series of patented technologies, including video-Doppler-radar (VIDAR).

Please feel free to contact me if further information is required.

Sincerely,

A handwritten signature in black ink, appearing to read "Lang Hong", is written over a light blue horizontal line.

Lang Hong, Ph.D.  
President

November 13, 2013

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

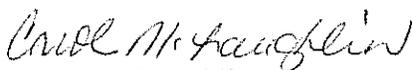
PQ Systems is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area of Information Services & Software. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, PQ Systems will provide 18 Undergraduate student semesters of new undergraduate co-ops during this grant with a paid stipend of \$4000.00 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

PQ Systems specializes in problem-solving tools such as software and service for statistical process control. In an increasingly competitive technological market, it is essential for PQ Systems to continuously upgrade products as well as develop new software products. Additional manpower with appropriate skill sets will enable the company to remain competitive as an Ohio company in a world market. The company was founded by a former Wright State University professor who believes strongly in giving students the opportunity to gain real world experience to better enable them upon graduation.

Sincerely,



Carol McLaughlin  
Accountant

P.O. Box 750010, Dayton, OH 45475-0010

800-777-3020 fax 937-885-2252

sales@pqsystems.com www.pqsystems.com



11/11/13

The Reynolds and Reynolds Company  
One Reynolds Way  
Kettering, OH 45430

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Petro and Distinguished Panel Members:

The Reynolds and Reynolds Company is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Information Services & Software and Business Functions. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2016, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, The Reynolds and Reynolds Company will provide 40 Undergraduate semesters of new undergraduate co-ops during this grant with a paid rate of \$2,380 – 3,360 (\$8.50-12/hr, 20 hrs/week) per student per semester during the school year and \$4,760 – 6,720 (\$8.50-12/hr, 40 hrs/week) per student per semester during the Summer. We are targeting 5 year-round interns plus an additional 10 summer only interns. Total cost for The Reynolds and Reynolds Company at 100% spend is approximated at \$119,000 – 168,000. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

**Company Information:**

Founded in 1866, The Reynolds and Reynolds Company ([www.reyrey.com](http://www.reyrey.com)) has a heritage of over 150 years of business operations – a heritage that sets us apart as we build for the future. Continually driven by our legacy of product innovation and customer service, Reynolds delivers solutions that support all areas of automotive retailing for car dealers and automakers. These solutions include a wide variety of software, business forms, and professional services that help dealerships operate more effectively and profitably in all departments – from accounting and sales to parts and service.

Headquartered in Dayton, Ohio, with major office locations in Houston and College Station, TX, Canada, United Kingdom and other locations across Europe, Reynolds employs more than 4,300 associates worldwide.

Sincerely,

A handwritten signature in black ink, appearing to read 'Craig Moss', with a horizontal line extending to the right.

**Craig Moss**  
**Vice President/CFO**

November 15, 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 Wright 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 Wright 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 Wright State University students in FY 14 until FY 16, at our Ohio location, contingent upon business conditions. 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

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 intent in support of Wright 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 Wright 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 Wright 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. T.I. Weintraub  
Executive Vice President



November 13, 2013

Slone Gear International, Inc.  
305 South Market Street  
P.O. Box 496  
Troy, Ohio 45373

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Slone Gear International, a provider of gear production and gaging solutions, is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Advanced Manufacturing, Aerospace & Aviation, and Automotive. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, Slone Gear International, Inc. will provide 6 undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$7,000 per student per semester and 3 Graduate semesters at a paid rate of \$10,000 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Slone Gear International is a gear component sourcing, gaging and production solutions company. Products and services include Spline Gages/Master Gears, Functional Gear Roll Testers, Roundness Measurement Systems, Work holding, Gear/Spline Cutters and Production Machines, and Gear and Spline classroom training.

Sincerely,

A handwritten signature in black ink that reads "Brian Slone".

Brian Slone  
Owner and Vice President of Operations

November 12, 2013

John Carey  
Chancellor  
Ohio Board of Regents  
25 South Front Street  
Columbus OH 43215

Dear Chancellor Carey:

I write to express SOCHE's enthusiastic support for the Ohio Means Internships and Co-ops proposal being submitted by Wright State University. SOCHE has signed on as a formal partner, and endorses the mission of this collaborative proposal to create meaningful linkages for students to Ohio businesses through the internships and cooperative education program. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

Contingent on business conditions, SOCHE will provide 45 undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$5,150 per student per semester and 36 graduate semesters at a paid rate of \$7,000 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Since 1967, SOCHE has served as the collaborative infrastructure for higher education, helping our member colleges and universities transform their communities and economies through the education, employment, and engagement of more than 100,000 students in southwest Ohio. *SOCHEIntern* is an exemplar program for the region, placing hundreds of students annually in high-end research and development opportunities working with WPAFB and area companies. In 2012, we launched the "20 by 20 Challenge: 20,000 Internships by 2020" as an advocacy initiative to work help companies meet their workforce needs through internships. Further, we are currently working with Senator Beagle on establishing "Ohio Internship and Co-op Appreciation Day."

We are delighted that Governor Kaisch continues to support internship, and are appreciate the opportunity to work with Wright State University on Ohio Means Internships and Co-ops. Please contact me at (937) 258-8890 or [sean.creighton@soche.org](mailto:sean.creighton@soche.org) if you would like to discuss our support in further detail.

Hope to see you soon!

Sincerely,



Sean Creighton  
Executive Director

Air Force Institute of Technology  
Antioch College  
Antioch University Midwest  
Cedarville University  
Central Michigan University  
Central State University

Clark State Community College  
Edison Community College  
Kettering College  
The Kettering Foundation  
Miami University Regionals

Sinclair Community College  
Southern State Community College  
Union Institute & University  
United Theological Seminary  
University of Dayton

Urbana University  
Wilberforce University  
Wilmington College  
Wittenberg University  
Wright State University



November 11, 2013

Chancellor Carey  
Ohio Board of Regents  
30 East Broad Street  
Columbus, Ohio 43215-3414

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Systematic Solutions, Inc. is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area of Energy. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014–Spring 2016 will result in an increase of graduates in the energy area which is vital to our success and will directly benefit my company, which conducts energy and emissions modeling and policy analysis, as well as other energy and R&D companies in Ohio.

Contingent on business conditions, Systematic Solutions, Inc. will provide 1-2 Undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of up to \$3,360 per student per semester and 1-2 Graduate semesters at a paid rate of up to \$3,920 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Amlin".

Jeff Amlin  
President  
Systematic Solutions, Inc.



November 11, 2013

Chancellor Petro  
Ohio Board of Regents  
30 East Broad Street  
Columbus, Ohio 43215-3414

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Petro and Distinguished Panel Members:

Systematic Solutions, Inc. is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area of Energy. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015 will result in an increase of graduates in the energy area which is vital to our success and will directly benefit my company, which conducts energy and emissions modeling and policy analysis, as well as other energy and R&D companies in Ohio.

Contingent on business conditions, Systematic Solutions, Inc. will provide 1-2 Undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of up to \$3,360 per student per semester and 1-2 Graduate semesters at a paid rate of up to \$3,920 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Amlin".

Jeff Amlin  
President  
Systematic Solutions, Inc.

Date: November 13, 2013

Teradata  
10000 Innovation Drive  
Dayton, OH 45342

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Teradata is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area of Information Services & Software. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions Teradata will provide an estimation of 2 Undergraduate interns during this grant with a paid stipend of \$4,800.00 per student per internship and 1 Graduate intern at a paid rate of \$6,400.00 per student per internship. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds. ***Please note that the above numbers are estimations and not a guarantee.***

Teradata

Sincerely,

***Malinda Hamilton, Human Resources***

November 13, 2013

Ohio Board of Regents

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant Submitted by WSU

Dear Chancellor and Distinguished Panel Members:

Tridec Technologies is excited to partner with Wright State University (WSU) to increase student internships and co-ops in the JobsOhio key area of Information Services & Software. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships, accomplish our role in the training and evaluation of the student-intern, and support the recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015 will result in an increase of graduates in areas vital to our success and fill vacancies in our company.

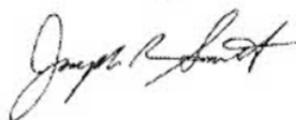
Contingent on business conditions, Tridec may provide six undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$3,360.00 per student per semester or six graduate semesters at a paid rate of \$5,040.00 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Tridec is a Department of Veterans Affairs (VA) Verified Service-Disabled Veteran-Owned Small Business specializing in enterprise level process improvement through custom information technology solutions. Tridec has successfully developed and deployed numerous solutions for the VA acquisition community since 2009. These solutions were delivered using proven iterative development methodologies that transform customer requirements into high-value applications. As a result of this performance, Tridec received the Department of Veteran Affairs Veteran-Owned Small Business Award for Extraordinary Achievement!

Tridec was founded in 2009 with three employees and grew each year to 35 employees in 2013. Our leadership team members have an average of over 30 years' experience in program and technical management, development, and implementation of IT programs with Federal Agencies and industry. A unique characteristic of Tridec is that our leadership team has worked together for 18 years and has built a reputation for providing exceptional technical expertise by thoroughly understanding our customers' needs and rapidly implementing effective solutions.

We appreciate supporting Wright State University and Ohio Means Internships and Co-ops for the 2013 academic year and we look forward to the opportunity to provide continued support.

Sincerely,



Joseph R. Smith  
Director of Human Resources



4401 DAYTON-XENIA RD.  
DAYTON, OHIO 45432-1894  
PH: (937) 426-6900 • FAX: (937) 429-5413  
www.ues.com

November 15, 2013

Subject: Statement of Support for the Ohio Means Internships & Co-Ops II Grant  
Submitted by Wright State University

Dear Chancellor Petro and Distinguished Panel Members:

Founded in 1973, UES, Inc. is an Ohio-based, women-owned small business with 40 years of experience in science and technology. UES provides superior research and development expertise, world class support, on-site scientific, technical, and research support and value-added management services. Our commercial mission is to provide high quality technologies that address the real-world problems of our government and industry customers.

UES is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Polymers & Chemicals and Research & Development. We plan to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from January 2014 to December 2015 will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent upon economic conditions.

Contingent upon business conditions, UES will provide approximately three undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$6,720 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student.

UES supports the Ohio Means Internships & Co-Ops II Grant and believes it is a worthwhile program.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nina Joshi'.

Nina Joshi  
President/CEO

lap



November 14, 2013

Valtronic USA  
29200 Fountain Parkway  
Solon, Ohio 44022

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Valtronic is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key areas of Advanced Manufacturing, Aerospace & Aviation and Biohealth. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015 will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions and needs, Valtronic will provide up to two Undergraduate semesters of new undergraduate co-ops during this grant with a paid stipend of \$6,720 per student per semester and up to two Graduate semesters at a paid rate of \$5,040 per student per semester. The grant will match with a stipend of up to 50% per undergraduate student, 40% per graduate student, subject to availability of funds.

Valtronic is a niche “mechatronics” manufacturing solutions company. We produce integrated electronic and mechanical products. Our customers are leading global suppliers of medical implants and devices, diagnostic imaging equipment and sensitive aerospace and industrial assemblies. For over 30 years we have helped hundreds of companies develop and produce Class II & III medical devices and advanced miniaturized electronic assemblies.

Sincerely,

Jim Ohneck  
Global Senior Vice President  
Chief Marketing Officer

Date: 13Nov2013

Xylem, Inc.  
1725 Brannum Lane  
Yellow Springs, OH 45387

Subject: Statement of Support for the Ohio Means Internships & Co-ops II Grant  
Submitted by Wright State University

Dear Chancellor Carey and Distinguished Panel Members:

Xylem, Inc. is excited to partner with Wright State University to increase student internships and co-ops in the JobsOhio key area of R&D. We pledge to collaborate with WSU to coordinate the placement process, provide paid internships or co-ops, play our role in the evaluation of the student, and support the training and recruitment of students.

The expectation is that an increase of student internships and co-ops from Summer 2014 through the end of Spring 2015, will result in an increase of graduates in areas vital to our success and an increase in vacancies in our company filled, contingent on economic conditions.

Contingent on business conditions, Xylem, Inc. will provide one semester of new undergraduate co-ops during this grant at a paid rate of \$20/hr. per student (or a not-to-exceed rate of \$6,720 per student per semester), of which the OMIC grant will provide 50%. It is, in part, because of this important grant, that Xylem is able to support this opportunity.

Xylem Inc. is global water technology provider, enabling customers to transport, treat, test and efficiently use water in public utility, residential, commercial, agricultural and industrial settings. Xylem is headquartered in White Plains, NY, does business in more than 150 countries, and employs 12,500 employees worldwide.

Sincerely,

Mike Coyle  
Executive Director, R&D

**Thomas Sudkamp, Ph.D.**

Vice President for Curriculum and Instruction  
Wright State University  
Dayton, OH 45435  
Telephone: 937-775-2097  
Email: thomas.sudkamp@wright.edu

**Professional Experience:**

2013- Present: Vice President for Curriculum and Instruction, Wright State University  
2012-2013: Interim Provost, Wright State University  
2010- 2012: Associate Provost for Undergraduate Studies and University College  
Wright State University  
2007-2010 Chair, Department of Computer Science and Engineering, Wright State  
University  
1995-present Professor, Department of Computer Science, Wright State University  
2002-2003 Professor Invité, Institut de Recherche en Informatique de Toulouse,  
Univesité Paul Sabatier, Toulouse, France  
1989-1995 Associate Professor, Department of Computer Science, Wright State  
University  
1990-1991 Visiting Scholar, University of California-Berkeley  
1983-1989 Assistant Professor, Department of Computer Science, Wright State  
University  
1980-1982 Calspan Corporation, WPAFP, OH

**Education:**

Ph.D. Mathematics, University of Notre Dame, 1978  
MS Computer Science, Wright State University, 1982  
MS Mathematics, University of Notre Dame, 1976  
BS Mathematics, University of Wisconsin-Madison, 1974

**Recent OMIC related activities**

- ◆ Principal investigator: Choose Ohio First II Scholarship Program. Ohio Board of Regents; July 2013-June 2014: \$650K.
- ◆ Principal investigator: Ohio Means Internships and Co-ops. Ohio Board of Regents; February 2012-June 2014: \$650K.
- ◆ Principal investigator: Choose Ohio First Scholarship Program. Ohio Board of Regents; July 2010-2013: \$1.2M.
- ◆ Representative for Ohio Public Universities on the Ohio Workforce Project
- ◆ Member Board of Directors of the Dayton-Wright Chapter of the Armed Forces Communications and Electronics Association

**Research Interests and Accomplishments:** Current research interests are in the application of soft computing techniques to modeling and decision analysis. Research in fuzzy models and learning algorithms focuses on the development and analysis of algorithms to model complex systems in which only an imprecise or approximate description of the relationships among the features is available. Author of *Languages and Machines: An Introduction to the Theory of*

*Computer Science*, Addison-Wesley and co-author of *Similarity and Computability in Fuzzy Set Theory: Assessments and Applications*, Physica-Verlag. Co-editor of books on computational intelligence and fuzzy systems. Author of over 90 publications on computer science, artificial intelligence, and machine learning.

### **Awards**

- ◆ Wright State University Fredrick White Distinguished Professor of Service, 2006
- ◆ Engineering and Science Foundation of Dayton, Award for Outstanding Professional Achievement, 2000
- ◆ North American Fuzzy Information Processing Society, K. S. Fu Award for Distinguished Service, 1999
- ◆ Southwestern Ohio Council for Higher Education, Award for Faculty Excellence, 1997
- ◆ Wright State University Presidential Award for Faculty Excellence in Teaching, 1995

## Joseph C. Slater, Ph.D., P.E.

### Education

<i>Institution</i>	<i>Concentration</i>	<i>Degree/Date</i>
State University of New York at Buffalo	Mechanical Engineering	Ph.D., 1993
State University of New York at Buffalo	Aerospace Engineering	M.S., 1992
State University of New York at Buffalo	Aerospace Engineering	B.S., 1989

### Professional Credentials

Professional Engineer      State Board of Registration for Professional Engineers and Surveyors, Ohio. Registration Number - 66936, 2002.

### Professional Experience

#### Wright State University

*Associate Dean for Industrial and Government Relations (May 2013-present), Associate Dean for Defense Aerospace Studies (2011-May 2013), Director Aerospace Professional Development Center (2011-present), Director MS in Engineering- Aerospace Concentration (2012-present)*

- Created the Aerospace Professional Development Center with Ryan Fendley and S. Narayanan in October 2012. Led the development of the website, training of the staff member, and development of the operational plan. Developed the prospective worker to job opportunity matching algorithm concept. Supervised creation of *Standard Occupational Codes- Extended for Aerospace* database and its quantitative gradated mating to degrees relevant to aerospace workforce. Consulting Ohio Board of Regents in including capability being developed into version 2 of *ohiomeansinterns.com* and *ohiomeansjobs.com*.
- Serves as the only academic on the Ohio Aerospace Institute Innovation Committee (otherwise an Industry/Ohio Board of Regents committee) representing the faculty viewpoint regarding issues of IP and collaboration between industry and universities.
- Created the for-credit internship program within CECS, addressing a long observed need for both academically formalized experiential learning and greater support for connecting our students to industry. Developed a fiscally sustainable model for the intern program (see prior bullet) and programmed (with N. Klingbeil) the office to ensure greater interaction between intern office and students.
- Created the MS Aerospace Engineering program, becoming the most highly sought program by prospective international students within months of creation.
- Created the College of Engineering and Computer Science internship program.

*Professor (2008-present), Associate Professor (1999-2008), Assistant Professor (1993-1999) - Department of Mechanical and Materials Engineering*

- Directed \$1.4M in research programs in the areas of modeling, control, and system identification of mechanical, aerodynamic, thermal, and electrical systems. Resulted in almost 70 technical articles and one book chapter.
- Supervised 16 graduate student (14 MS, 2 PhD) to completion as major advisor. A substantial number of students have become leaders in their industry or faculty (Manager at Goodrich Aerospace, Senior Director - Engineering at Ingersoll Rand, Master Engineer at Orbital Sciences Corporation, Assistant Professor at Petroleum Institute).

- Developed and coordinated what has become one of the largest STEM outreach programs at WSU from 2000 to the present. Served as a STEM Fellow at the Montgomery County Regional STEM Center developing K12 STEM lesson plans meeting Ohio Department of Education guidelines (2008-2010).
- Have been recognized as one of the best teachers in CECS on four separate occasions.
- Received a Certificate of Award for Outstanding Contributions to the ISAT Program for work on the DARPA Innovative Satellite Antenna Program performing non-publishable research and analysis.
- Served as advisor to Society of Women Engineers for ten years, personally advising many of the members, developing leadership skills, and providing and assisting with outreach opportunities targeting bringing young women into STEM fields.
- Awarded three medals for service beyond the norm supporting the AIAA SDM conference through transition to a new software system, overcoming and debugging the conference system, and serving on the AIAA conference software advisory committee.
- Led the Mechanical Engineering and CECS curriculum semester transition efforts considering both workload and resource constraints post-transition.
- Served on the General Education Curriculum Semester Transition Committee resulting in numerous contributions to the current program and substantial direct impact on CECS students.

## Honors, Awards & Recognitions

<u>Organization</u>	<u>Award</u>	<u>Dates</u>
AIAA, Structural Dynamics, Mechanics, and Materials Organizing Committee	Outstanding service in organizing the SDM conference	2013
AIAA, Structural Dynamics, Mechanics, and Materials Organizing Committee	Outstanding service in organizing the SDM conference	2011
Dayton Affiliate Societies Council	Outstanding Engineers & Scientists Award, Education	2011
AIAA, Structural Dynamics, Mechanics, and Materials Organizing Committee	Outstanding service in assisting the SDM organizing committee in implementing ScholarOne for the first time	2010
Wright Lab	Summer Faculty Fellowship	1994, 1995, 1999, 2000, 2009, 2010
Wright State University, College of Engineering & Computer Science	Faculty Service Award	2006, 2010
Wright State University, College of Engineering & Computer Science	Outstanding Teaching Award Finalist	1999, 2004, 2007, 2008
DARPA	Certificate of Award for outstanding contributions to the ISAT program	8/2007
Wright State University, College of Engineering & Computer Science	Nominee for Wright State University Distinguished Professor of Service	2005
AIAA	Associate Fellow	2001
Phillips Lab	Summer Faculty Fellowship	1996
SUNY Buffalo	Presidential Fellowship	1989-1993
NASA Langley	Graduate Fellowship	1989-1992

**Julie Miller** has been with Wright State University since 1997, leading as Executive Director for the Business Enterprise Center, managing Career Services, Internships and serving as Development Officer for the Western Ohio Educational Foundation. Her teaching experience includes areas of Leadership and Entrepreneurship, while directing the Executive MBA weekend program at the campus. Under Julie's leadership and collaboration, the campus formed SkillsTrac, an advanced manufacturing curriculum certifying maintenance workers skills and introduced a new four year degree in Mechanical Engineering offered at the Lake Campus, to support area employers.

A number of community related roles include:

- Regionally economic and workforce development partner
- Founding board member of the Grand Lake St. Marys Restoration Commission, for watershed improvement
- Past president of Celina Rotary Club, Lake Development Corp, Auglaize Mercer County Convention & Visitor Bureau, Grand Lake Area Safety Council, Area 8 Workforce Investment Board, and Van Wert Economic Advisory Committee.
- Successfully collaborated and awarded grants from U.S. Department of Labor, USDA, Ohio Board of Regents, and HealthPath Foundation, Verizon Foundation and others
- Formed and secured funding for a campus internship program
- Holds both a bachelor's in Organizational Leadership, and masters degree in Business Administration from Wright State University.

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## **PROFESSIONAL SUMMARY**

- Fifteen years experience working in Higher Education
- Over ten years experience empowering lifelong career management for both students and alumni
- Ability to foster relationships with business and educational leaders across the Miami Valley and beyond
- Successfully placed students in co-ops/internships within corporate, non-profit, and government agencies
- Develop rapport with a variety of internal and external stakeholders in support of strategic initiatives
- Certified to administer the Myers-Briggs Type Indicator
- Familiar with Banner, SIS, CSO Interfase, Facebook, Linked In and Microsoft Office

## **RELEVANT EXPERIENCE**

### **University Advising**

- Advised students and alumni in their job search, major selection, and/or career change which included reviewing and critiquing résumés and cover letters and conducting mock interviews
- Instructed career development course for deciding students to increase self-awareness and self-advocacy
- Administered and interpreted Myers-Briggs Type Indicator, Campbell Interest Inventory, Self-Directed Search, TypeFocus, Discover, and SIGI Plus
- Worked closely with key members of the university, including faculty, staff, students, and alumni to enhance career development opportunities
- Primary student/staff contact for Office of Disability Services and Athletics
- Served as a liaison between Career Services, Colleges of Business, Science & Math, Liberal Arts, and University College
- Planned, marketed, and implemented recruiting events targeting specific colleges and employers
- Coordinated on-campus recruiting visits between employers and students

### **Internship Coordination**

- Managed university-wide Cooperative Education and Internship Program at Wright State University
- Recruited, hired, and managed over 90 summer interns for the Air Force Institute of Technology Summer Internship Program
- Co-designed a custom, web-based content delivery and database tracking system to enhance résumé referral and selection process
- Initiated partnerships between the Miami Valley Research Foundation, the 40+ Research Park employers, and local university students through internships
- Assisted with the design and implementation of SOCHE *Intern*, incorporating six core components: Employer Recruitment, Student Recruitment, Placement/Orientation, Learning Objectives, Tracking/Evaluation, and Value-Added Service
- Identified and tracked prospective student candidates for corporate employment opportunities
- Reviewed student co-op performance appraisals/job summaries to ensure student/organization compatibility
- Devised and implemented marketing strategies to expand Cooperative Education Program by utilizing local and national recruiting trends
- Served as Executive Board member for the Ohio Cooperative Education Association

**University and Corporate Relations**

- Worked closely with key members of the university, including faculty, staff, students, and alumni to enhance professional development opportunities
- Primary contact for 17 Councils and Committees representing 20 Colleges and Universities
- Planned strategies for cultivating relationships with local and regional corporations to enhance cooperative education and internship programs
- Presented new student orientation and transition sessions for students and parents
- Updated website and created e-solicitations to market services and programs to local businesses

**PROFESSIONAL AFFILIATIONS and QUALIFICATIONS**

Member, Ohio Cooperative Education Association, 1999-Present

*Training Chair*, 2011-2013

*Recognized as the Employer of the Year*, 2009-2010

*President*, 2009-2010

*Treasurer*, 2004-2006, 2007-2008

*Scholarship Chair*, September 2001-May 2004

Member, National Association of Colleges and Employers, 1997-2009

Member, Wright State University Athletic Council, 2004-2009

*Corresponding Secretary*, 2007-2009

*Academic Affairs Committee Member*, 2004-2008

*Minority Access Committee Member*, 2004-2006

Qualified to Administer and Interpret Myers-Briggs Type Indicator, 2000-Present

**HIGHER EDUCATION EXPERIENCE**

**Aerospace Professional Development Center at Wright State University, Dayton, OH**

*Career Advisor*, 2012-Present

**Southwestern Ohio Council for Higher Education**

*Director of Educational Partnerships*, 2010-2012

*Assistant Director*, 2009-2010

**Wright State University, Dayton, OH**

*Assistant Director*, Career Services, 1999-2009

*Intern*, Disability Services, 1999

*Graduate Assistant*, Career Services, 1997-1999

**EDUCATION**

**Wright State University, Dayton, OH**

*Master of Rehabilitative Counseling*, 1999

**Oklahoma State University, Stillwater, OK**

*Bachelor of Science in Recreational Therapy*, 1996

Minors: General Business and Recreational Management

Chosen one of Top Ten Students in the College of Education

6159 Fairway Drive  
Cincinnati, OH 45212

jessicammelita@gmail.com  
610.247.3030

## EDUCATION:

### Master of Arts, College Student Personnel

May 2009

*Bowling Green State University*, Bowling Green, OH

- Higher Education Student Affairs Program United Kingdom Study Tour: Two-week study abroad spent learning about student services at universities throughout the United Kingdom, May 2008

### Bachelor of Arts, Communication Sciences and Political Science

May 2007

*University of Connecticut*, Storrs, CT

- The Olympic Games, Ancient and Modern: Three-week study abroad throughout Greece focused on aspects, traditions, and culture of the ancient and modern Olympic Games, June 2004 - July 2004

## PROFESSIONAL EXPERIENCE:

Internship Advisor

November 2013 - Present

*Brandeberry Career Development Center*, Dayton, OH

Assistant Director of Career Services

June 2012 - November 2013

*Office of Career Services*, Oxford, OH

- Promoted to Assistant Director from Coordinator in October 2012 based on responsibilities and performance
- Liaison to the College of Engineering and Computing undergraduate and graduate student populations serving as primary contact for faculty and department leaders
- Served on College of Arts and Science liaison advising team, primarily focused on STEM majors
- Conducted individual advising appointments including major and career exploration, career testing debriefs, resume and cover letter critiques, interview techniques, and job search strategies for co-ops/internships
- Met with over 20 employers to assist in cultivation and maintenance of existing and new employer relations
- Provided programming for all majors including major specific job search strategies, salary negotiation, Strong Interest Inventory, Myers-Brigg Type Indicator (MBTI), StrengthsFinder, and Focus 2.0 debriefs
- Completed Strong Interest Inventory Certification in December 2012
- Gathered information and disseminated weekly updates as Governmental Liaison for five advisory staff members

First Year Adviser

July 2009 - May 2012

*Office of Residence Life*, Oxford, OH

- Attended StrengthsQuest Educator Seminar facilitated by The Gallup Organization in spring 2010
- Academically advised 150 first-year students utilizing appreciative advising model philosophy
- Supervised 11 resident assistants and one graduate student in co-ed hall of 350 residents
- Team Captain for the Explore Miami Living Learning Community, primarily helping students with personal and career development and exploration through strategic co-curricular planning and collaboration with stakeholders
- Adjudicated four cases a week as conduct hearing officer in the Office of Ethics and Student Conflict Resolution
- Served as a live-in staff member and participated in campus-wide duty for 7,000 residents

Miami University Externship

June 2011 - July 2011

*Office of Career Services*, Oxford, OH

- Observed individual advising appointments in order to utilize career development theories in EDL100
- Learned career testing debrief strategies and observed Strong Interest Inventory, MBTI, and Focus 2.0 debriefs
- Completed training for fall 2011 mock interviewers by practicing resume critiques, interview technique feedback, and learning technology required to be effective interviewer for Miami University students
- Staffed Career Services orientation table by promoting office services and providing information to students and family members through individual or small group interactions

Graduate Assistant for Greek Affairs

August 2008 - May 2009

*Office of Residence Life*, Bowling Green, OH

- Advised Independent Greek Council, comprised of seven multicultural and service based organizations
- Planned and implemented Greek Awards process to recognize individuals and chapters who fulfilled their founding principles of brotherhood/sisterhood, leadership, scholarship, and service
- Advised Greek Housing Board whose members determined creative educational sanctions for chapters who had housing vacancies and were in violation of the Housing Agreement
- Coordinated logistics of January Leadership Retreat for over 200 Greek student leaders
- Served as Sigma Kappa Greek House Director by providing advisory support for over 30 residents, meeting with chapter officers on a weekly basis, and participated as on-call staff member for Residence Life Greek living units

University of Michigan Practicum Student August 2008 - May 2009

*Office of New Student Programs, Ann Arbor, MI*

- Developed learning outcomes for University Mentorship participants based on focus groups, surveys, training manuals, program advertising, and participant roles and responsibilities
- Assisted with Parents' Weekend as a part of the planning committee and by volunteering at events

Bowling Green State University Practicum Student January 2009 - May 2009

*Off Campus Student Services, Bowling Green, OH*

- Created and administered needs assessment for first-year traditional-aged commuter students
- Created proposal for "Commuter Challenge" to encourage commuter students to utilize campus resources

Graduate Assistant to the Director of Residence Life August 2007 - May 2008

*Office of Residence Life, Bowling Green, OH*

- Developed Department of Residence Life Emergency Plan and co-facilitated safety meetings with police force
- Coordinated "Ableism Room" for Tunnel of Oppression

Florida International University Practicum Student March 2008

*Office of Orientation and Commuter Student Services, Miami, FL*

- Researched and proposed event ideas for Week of Welcome 2008 specifically for transfer and commuter students
- Worked at a Hispanic-serving institution and was exposed to the unique culture and environment

Bowling Green State University Practicum Student January 2008 - May 2008

*Office of Admissions, Bowling Green, OH*

- Staffed President's Day, transfer visit days, tour guide retreat, guidance counselor retreat, and off-site receptions
- Interacted with potential students and parents through recruiting, information sharing, one-on-one and small group discussions regarding unique factors related to individual students' needs in relation to admission requirements

## TEACHING EXPERIENCE:

- Career Development and the College Student, Miami University August 2012 - December 2012  
October 2011 - December 2011
- Introduction to Residence Halls, Miami University August 2011 - October 2011  
August 2010 - October 2010  
January 2009 - March 2009
- Seminar in Residence Life: Greek Leadership, Bowling Green State University August 2008 - December 2008
- Leaders in Residence, Bowling Green State University January 2008 - May 2008
- Leadership Seminar, University of Connecticut January 2006 - May 2006
- University Learning Skills, University of Connecticut August 2005 - December 2005

## VOLUNTEER EXPERIENCE:

*Pi Beta Phi Women's Fraternity* January 2008 - Present

- Currently advise Ohio Zeta Panhellenic Delegate responsible for external communications between local chapter, Miami University, alumnae, and Pi Beta Phi International Headquarters
- Advised Ohio Zeta Vice President of Membership and oversaw recruitment and membership selection processes
- Advised Ohio Theta Vice President of Finance in one of two chapters testing pilot online financial program

- I. College/School/Department: **College of Engineering and Computer Science**
- II. Course Information:  
 Course Title: **Introduction to Co-Op and Internship**  
 Course Abbreviation and Number: **EGR 1900**
- III. Course Registration:  
 Prerequisites: **None**  
 Co-requisites: **None**  
 Restrictions: **Must be enrolled in the College of Engineering and Computer Science and be admitted to co-op program, or receive permission from the instructor.**
- IV. Student Learning Outcomes:
  - **Students will be able to develop a personal resume for an engineering or computer science employment position.**
  - **Students will be able to discuss basic interviewing practices and principles.**
  - **Students will be able to describe the co-op process for CECS.**
  - **Students will be able to explain the connections between their course work and their co-op work experience.**
  - **Students will be able to discuss the skills and abilities that employers of engineers and computer scientists require of their employees.**
  - **Students will be able to list and locate the resources that are available to students at Wright State University.**
- V. Suggested Course Materials (required and recommended): **This is a seminar course. No required texts will be assigned.**
- VI. Suggested Method of Instruction: **Seminar**
- VII. Suggested Evaluation and Policy: **Students will be assigned homework and projects corresponding to the weekly seminar topic.**
- VIII. Suggested Grading Policy: **This course will be graded P/U.**
- IX. Suggested Assignments and Course Outline:

Week 1	Introduction
Week 2	Co-Op Basics
Week 3	Career Exploration
Week 4	Resume Writing
Week 5	Courses to Skills
Week 6	Job Search
Week 7	Interviewing Basics
Week 8	Mock Interviews
Week 9	Mock Interviews
Week 10	Workplace Safety
Week 11	Workplace Etiquette
Week 12	Employer Expectations
Week 13	Employer Applications
Week 14	Review



	Outstanding	Very Good	Satisfactory	Marginal	Unsatisfactory	Not Applicable
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					

## ACADEMIC PREPARATION

### Section I:

For the following ABET learning outcomes, please rate the academic preparation of the student you supervise:

	Outstanding	Very Good	Satisfactory	Marginal	Unsatisfactory	Not Applicable
Math Skills	<input type="checkbox"/>					
Fundamental knowledge of science such as physics and chemistry	<input type="checkbox"/>					
Ability to solve engineering problems	<input type="checkbox"/>					
Ability to design and conduct experiments, analyze and interpret data	<input type="checkbox"/>					
Ability to design a component or a process to meet desired needs	<input type="checkbox"/>					
Ability to use software or hardware tools for engineering design	<input type="checkbox"/>					
Ability to function as a member of a project team	<input type="checkbox"/>					
Professional and ethical attitude toward job responsibilities	<input type="checkbox"/>					
Ability to give oral progress reports	<input type="checkbox"/>					
Ability to provide written reports, memos, or letters	<input type="checkbox"/>					
Ability to learn independently	<input type="checkbox"/>					
Understand the impact of engineering solutions in a global and societal context	<input type="checkbox"/>					
Recognize the need for, and an ability to engage in life-long learning	<input type="checkbox"/>					

**Section II:**

Please complete the following questions.

Is this student's academic program oriented to the particular needs of your organization?

Do you believe the student's skill set may be improved through classroom study or changes in specific aspects of the student's previous coursework?

What, if any, changes would you like to see implemented in the curriculum and/or internship program to better prepare future students for employment with your organization?

Do you anticipate this internship position to serve as a bridge toward full time employment for this student? Will you invite this student to return for an additional semester?

**ADDITIONAL COMMENTS**

Please provide additional comments, suggestions, and advice for the student:

**REVIEW AND SIGNATURES**

Please review this completed evaluation with the student.

The student may have questions or ask for an explanation of the various ratings.

The review of the appraisal, with you, is an important part of the learning process.

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Name of Supervisor (Please Print)

Supervisor's Phone Number

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Supervisor's Job Title

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Supervisor's Signature

Date

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Student's Signature

Date

**Instructor:** Sheryl Kent

**Contact:** sheryl.kent@wright.edu or 937.775.4491

**Office Hours:** By Appointment, M-F 9:00am – 1:00 pm in 280 H JC

**Credit Hours:** 1-4; 1 credit hour = 10 hours work/week

**Text:** No required texts will be assigned. Assignments and discussions will be completed through the tools available in Pilot.

**Course Description:** The Engineering Internship experience allows students to investigate the applicability of their studies in relationship to the requirements of an employer in the format of a 10-40h/week field experience. Students registered for this course are affirming they have verifiable employment corresponding to the required hours of work per week on average. If a student's employment status changes during the term they should contact the instructor immediately.

**Evaluation and Policy:** Students will be assigned homework and projects corresponding to the weekly topic.

**Suggested Grading Policy:** This course will be graded Pass/Unsatisfactory.

**Course Outline/Assignments:** Below is a list of tentative topics for the term. Students are required to fulfill the assignments based on the requirements listed in Pilot. The assignments will be available the Monday beginning the two-week section. Assignment due dates will be listed along with the instructions. If students have any questions regarding the course requirements they should contact the instructor immediately.

Week	Date	Subject
1	January 13 - January 17	Introduction
2&3	January 20 – February 7	Learning Outcomes
5&6	February 10 – February 21	Course Selection
7&8	February 24 – March 14	Internship Expectations and Résumé Building
9&10	March 17 – March 28	Career Goals
11&12	March 31 – April 11	Job Search: Cover Letters, Interviews, Applications
13&14	April 14 – April 25	Program/Performance Evaluations – Exit Interview



**Internship Experience Evaluation**  
**For Students enrolled in EGR 2940, 3940, 4940, 6940**

Please complete this form during the last two weeks of the semester  
Return the signed form to: Sheryl Kent, Brandeberry Career Development Center,  
280 H Joshi Research Center, 3640 Colonel Glenn Hwy., Dayton, OH 45435;  
Fax: 937-775-5009; E-mail: sheryl.kent@wright.edu

\_\_\_\_\_  
Name of Student (Please Print)

\_\_\_\_\_  
Student's Academic Major (required)

\_\_\_\_\_  
Semester and Year of Co-op/Internship

\_\_\_\_\_  
Name of Employing Organization

\_\_\_\_\_  
Name of Supervisor

**JOB INFORMATION**

NOTE: You are encouraged to express your opinions candidly because you play a valuable role in shaping future internship programs. All comments will be kept confidential.

Including this semester, how many semesters have you worked for this employer:  1  2  3  4  Other \_\_\_\_\_

Will you be returning for an additional work term?  Yes  No  
If yes, which term(s)? \_\_\_\_\_

Have you received an offer for career employment with this employer?  Yes  No  
If yes, have you accepted an offer for career employment with this employer?  Yes  No

If no, have you accepted an offer for career employment with a different Ohio employer?  Yes  No  
Name of employer \_\_\_\_\_

What was the negotiated starting salary for career employment? \$ \_\_\_\_\_

**PERSONAL FEEDBACK**

Please complete the following questions.

What is the overall evaluation of this experience?  Excellent  Good  Average  Fair  Unsatisfactory

Describe the type of work to which you were assigned and the primary tasks and responsibilities.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What was your impression of the people with whom you worked (especially your supervisor)?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Did your work assignments meet your expectations?

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Did your employer provide an orientation program for new interns?  Yes  No  
If yes, what was included?

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What did you like most about your job assignment?

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What did you like least?

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Would you recommend this organization as a good place to intern?  Yes  No (Give Reasons)

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Would you consider this organization for permanent employment?  Yes  No (Give Reasons)

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Please include suggestions, remarks, and/or constructive criticism that would improve your organization's internship program.

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## ACADEMIC PREPARATION

**Section I:** Please rate your competencies during your internship experience in relation to your academic preparation

	Outstanding	Very Good	Satisfactory	Marginal	Unsatisfactory	Not Applicable
Math Skills	<input type="checkbox"/>					
Fundamental knowledge of science such as physics and chemistry	<input type="checkbox"/>					
Ability to solve engineering problems	<input type="checkbox"/>					
Ability to design and conduct experiments, analyze and interpret data	<input type="checkbox"/>					
Ability to design a component or a process to meet desired needs	<input type="checkbox"/>					
Ability to use software or hardware tools for engineering design	<input type="checkbox"/>					
Ability to function as a member of a project team	<input type="checkbox"/>					
Professional and ethical attitude toward job responsibilities	<input type="checkbox"/>					
Ability to give oral progress reports	<input type="checkbox"/>					
Ability to provide written reports, memos, or letters	<input type="checkbox"/>					
Ability to learn independently	<input type="checkbox"/>					
Understand the impact of engineering solutions in a global and societal context	<input type="checkbox"/>					
Recognize the need for, and an ability to engage in life-long learning	<input type="checkbox"/>					

**Section II:** Please complete the following questions.

How did this internship experience enhance your understanding of your chosen field?

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Please provide examples of how your internship experience and/or academic preparation have provided you with the understanding of the impact of engineering technology solutions in a societal and global context?

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What have you learned that will influence future course selections?

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Did you believe you were prepared academically for this experience?

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What, if any, changes would you like to see implemented in the curriculum to better prepare future students for participation in your organization's internship program?

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Please include suggestions, remarks, and/or constructive criticism that would improve the College of Engineering and Computer Science's internship program.

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Thank you for completing this evaluation. All information will remain confidential. If any comments are shared with employers, CECS faculty and/or staff, it will be compiled anonymously.