



Illinois Network for Advanced Manufacturing

iNAM Grant Meeting
21 Community College Consortium Members
January 7 – 8, 2013

Meeting held at
Lincoln Land College
5250 Shepherd Road
Springfield, IL 62794
(217) 786-2200
Menard Hall – Stephens Room

Hotels for overnight accommodations

Candlewood Suites; 2501 Sunrise Drive; Springfield IL	217-522-5100
Holiday Inn Express; 3050 South Dirksen Parkway; Springfield IL	217-529-7771

AGENDA
INAM Consortium Steering Committee Meeting
Community College Members

January 7 – 8, 2013
Monday 1– 4 PM
Tuesday 8 AM – 3 PM

Lincoln Land Community College
5250 Shepherd Road
Springfield, IL 62794
Menard Hall – Stephens Room

MONDAY, JANUARY 7

1 PM Welcoming remarks

- Attendance and introduction of attendees
- Overview of conference and conference facilities

Goal of conference: *Bring the consortium members together to provide a venue to better understand of the INAM grant, the responsibilities of each college, and the general timeline for both the individual college and grant deliverables.*

A secondary conference goal is to foster an exchange of information and ideas, as well as answer questions, issues or concerns related to accomplishing the Priorities and Strategies stated in the grant.

1:20 PM Review of Agenda and meeting packet

1:30 PM Update on release and distribution of federal grant money

Dates when INAM grant reports are due to Department of Labor

(To write these Grant Reports, must know what each college is doing, engaged in with business partners, or is doing with other INAM task force members, or has done to meet your college's responsibilities and deliverables of the grant)

Submit Monthly Activity Form to the INAM office: the first of each month brief 1- 2 page report to document grant activities

1:45 PM General items in INAM Grant

- INAM Consortium Steering Committee members by location
- Consortium members Roles and Responsibilities
- Organizational Chart for Grant Management
- Earn and Learn Model (diagram)
- Targeted Advanced Manufacturing occupations & certificates/degrees
- Gaps grant addresses (some of data sources to be used to assess effectiveness of grant)

2:30 PM Break (20 minutes)

3:00 PM

- Memorandum of Understanding for 21 Consortium CCs
- Review of Grant Compliance Handbook and forms

3:30 PM Colleges sharing what grant-related activities doing now

4:00 PM Questions and Answers about the INAM Grant

5:30 PM Meet for dinner

TUESDAY, JANUARY 8

8:00 AM Breakfast and networking

9:00 AM Review of INAM Grant Components

9:30 AM Review of First 6 month's Milestones
(part of requirements for all consortium members)

9:45 AM Short Break

10:00 AM Review of INAM Grant 6 Priorities and related Strategies

11:00 AM Review of your college grant budget
(indicates deliverables plus their timing your college specified
as a direct result of the over \$500,000 of grant money received)

12 NOON LUNCH

1:00 PM Review of Lead colleges and Convening colleges

1:15 PM Review of Timeline to develop Mfg curriculum leading to Fall 2013 start

1:25 PM Discussion & Decision meeting with your college representatives

Topic: a) Select at least 1 of the 6 Manufacturing Curricula your college will work on
(all colleges have indicated they will work on at least 1 curriculum to be shared with other colleges)

b) Check your college INAM Grant budget to assist you to select 2 additional Strategies your college will work on

2:00 PM Share what Strategies your college has selected to work on

2:30 PM Meetings with Strategy Task Forces (use Priority Worksheet)

20 minutes for each group (will meet 3 times to talk to 3 groups):

- Arrange possible 1st meeting date, time, location within next 2 weeks
- Discuss possible items related to work of the Task Force (objectives, deliverables, and deadlines)

3:30 PM Questions and Answers

Was the meeting goal achieved?

Adjournment and Thank You for all your hard work

❖ Next meeting: Tentative - May 1 and 2 (possibly at Joliet Junior College)

❖ Meeting to share plan for assessment/evaluation and assessment/evaluation forms:

Held in late February 2013 or early March 2013

INAM GRANT REPORTS DUE

1st Year September 2012 – June 30, 2013

Quarter Ends	Quarterly Report Due	Reporting Activities Occurring Between
December 31, 2012	February 14, 2013	Oct 1 – Dec 31, 2012
March 31, 2013	May 15, 2013	Jan 1 – Mar 31, 2013
June 30, 2013	August 14, 2013	April 1 – June 13, 2012

**Consortium College members: Report of college INAM Grant activities due
to grant office 1st of each month**



Illinois Network for Advanced Manufacturing

Monthly College INAM Grant Activity Form

College Consortium member:

Month:

Person completing form:

Contact phone and email:

Purpose: **To briefly** document monthly activities of the consortium college which meet the objectives and your college's deliverables as specified in the grant. Not all 6 strategies are applicable to your college. The college INAM Grant budget will assist in this process. Send electronic copy to INAM Grant office at Harper College at the first of each month.

Activities related to 6 components of the budget (in general):

- a) Personnel (hired)
- b) Equipment purchased
- c) Travel done and/or meetings held
- d) Supplied purchased
- e) Contractual services purchased or contracted for
- f) Other (is specified in college grant budget)

Activities and meetings held to work on INAM grant strategies:

Strategy 1.1 and 1.2 (educational plans and credit for prior learning)

Strategy 2.1 and 2.2 (bridge programs, NCRC)

Strategy 2.3 (All colleges working on curriculum for at least one of the 6 Mfg areas)

Strategy 3.1 (online platform, NTER system)

Strategy 4.1 and 4.2 (responsibility of ALL colleges to meet and build Mfg partnerships)

Strategy 5.2 (marketing endeavor for Mfg areas, certificates & degrees)

Strategy 6.1 (improve articulation agreements)

INAM Grant Consortium Steering Members

October 1, 2012

Far North

McHenry County College
Harper College
Kishwaukee College

College of Lake County
Oakton Community College
Elgin Community College

Lower North

Waubensee Community College
Triton College
South Suburban College

College of DuPage
City Colleges of Chicago - Daley College

Far Middle

Illinois Valley Community College
Prairie State College

Joliet Junior College
Kankakee Community College

Lower Middle

John Wood Community College
Richland Community College

Lincoln Land Community College
Danville Area Community College

Southern

Southwestern Illinois College

Illinois Eastern Community College

Consortium Members Roles and Responsibilities

Partner	Roles and Responsibilities
21 Member Community Colleges in the Illinois Network for Advanced Manufacturing (INAM)	The 21 community colleges members of INAM will provide expertise and assistance in curriculum development, training materials, advisory assistance, in-kind resources, recruitment of trainees, certification/degrees/accreditation, and job placement assistance. The remaining 27 community colleges in Illinois will have access to the work completed by INAM and the Earn and Learn Program and will serve as implementation partners.
Employers	Over 100 employers have committed to working with INAM and the Earn and Learn Program in the following capacities: paid internships, hiring, job shadowing/tours, mentoring, equipment usage, facility usage, interviewing students, curriculum development, training for incumbent workers, employees as instructors, marketing advanced manufacturing programming, scholarships, tuition reimbursement and serving as advisory or on focus groups. Key employers include Caterpillar, John Crane, Swiss Precision, Nation Pizza Products, and Acme Industries.
17 Illinois Local Workforce Investment Agencies (LWIAs)	TAA-eligible students will receive various services and financial assistance through TAA funding. LWIAs will assist with job placement by connecting students in the Earn and Learn Program and other job seekers with employers. LWIA staff will provide an overview of TAA eligibility requirements on a regular basis.
Illinois Community College Board (ICCB)	The ICCB is the state coordinating board for community colleges and administers the <i>Public Community College Act</i> . ICCB will support INAMs efforts to establish an overall cooperative agreement that permits students in the Earn and Learn Program pay in-district tuition and fees, regardless of where they live or work.
IGEN/SRI International	IGEN (College of Lake County) was successful in the first round of TAA grants awarded. A key aspect of their project is working with SRI to install, configure, test, and maintain an instance of the National Training and Education Resource (NTER) course management system designed specifically for the IGEN project. The Earn and Learn Program will leverage this resource by connecting to this course management system.
Paul T. Bucci & Associates (PTB) and Westat	PTB and Westat are the evaluation team for the project. This team has a distinguished history and track record in measuring various aspects of effective implementation and evaluation of strategic projects, such as those proposed by the Earn and Learn Program . Utilizing statistical analysis, advanced technologies, and economic and social policy, this team will be charged with tracking and measuring implementation and effectiveness of the priorities and strategies of the Earn and Learn Program .
The Council for Adult and Experiential Learning	When students receive college credit for what they know from life and work experience, they earn their degrees and credentials faster, saving money on tuition. These students also learn the value of their experience, which gives them confidence to complete their degrees. CAEL is the noted expert in this

Partner	Roles and Responsibilities
(CAEL)	field. Thus, CAEL will be engaged to help adult students receive the college credit for prior learning.
CareerBuilder	CareerBuilder, a premier vendor in the employment space, will serve as a partner in the Earn and Learn Program . CareerBuilder is a recognized leader in the search industry and will work with INAM in developing a placement tool and/or platform allowing manufacturers to post job openings. This platform will also be available to students throughout INAM community colleges allowing them to post their resumes and other employment information. This creates an opportunity to match qualified students will available jobs.

**Attachment D
Organizational Chart**

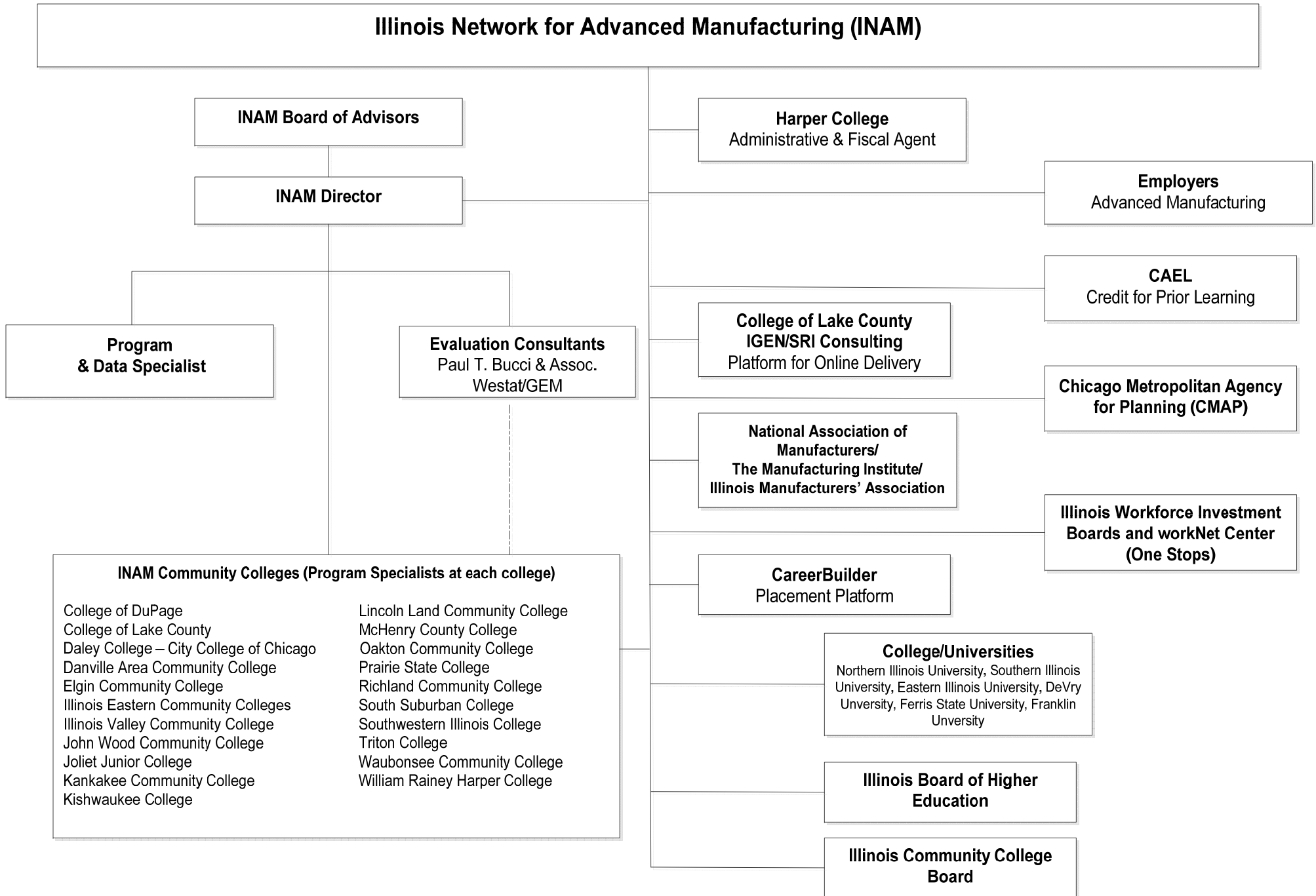
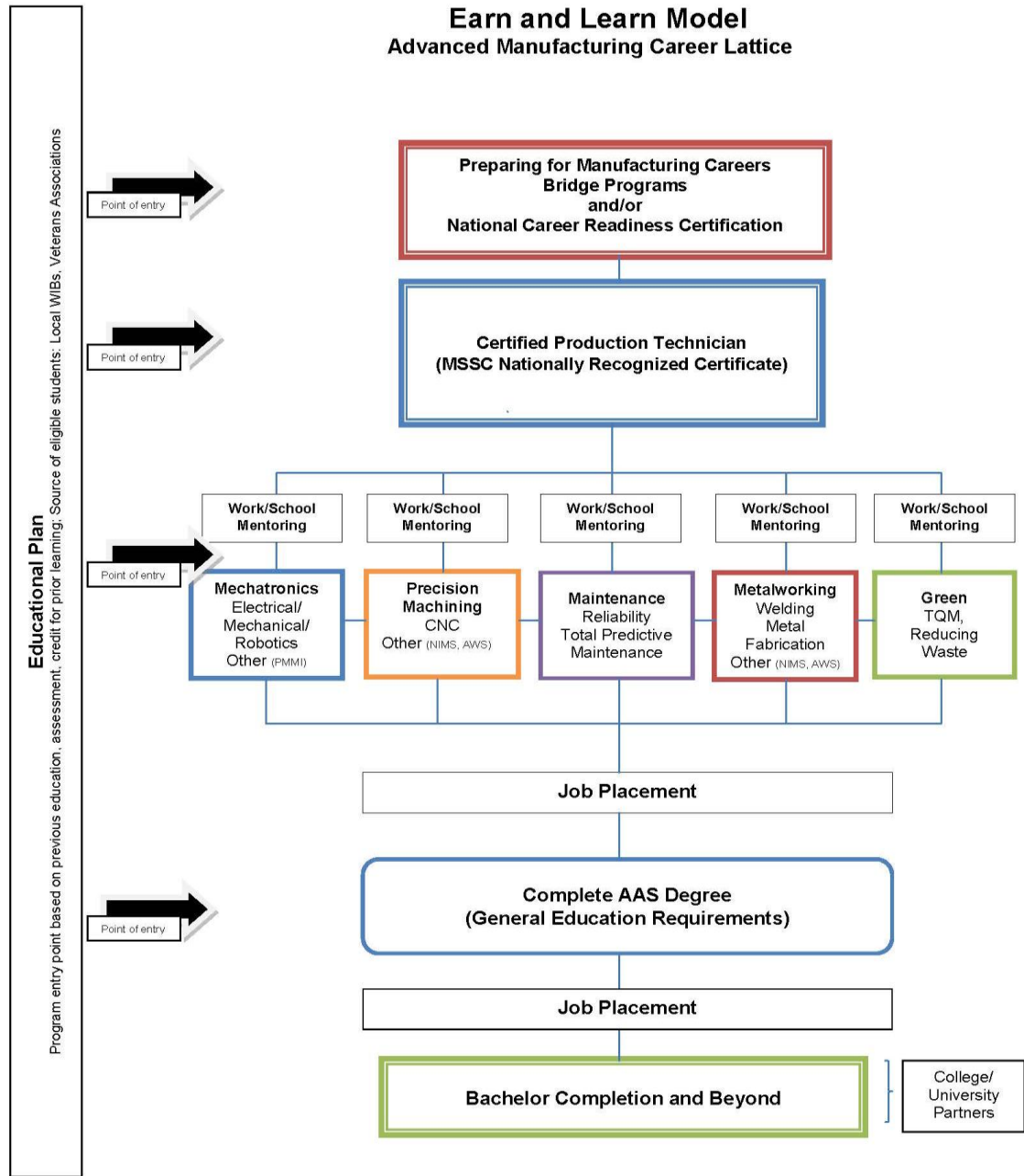


Diagram 1



**Advanced Manufacturing Occupations Targeted in Grant with the
Planned INAM Programs Leading to Certification**

Manufacturing Job Cluster	INAM Programs leading to Certificates, Degrees and Industry Recognized Credentials	Manufacturing Pathways, Industries, and Occupations
Entry-level	Certified Production Technician	Manufacturing Trainee/Paid Intern Leads to intermediate positions in Mechatronics, Computer Numerical Control (CNC) Machinist, Industrial Maintenance Technician, Welder, Waste Management Specialist, Advanced Manufacturing Technology
Intermediate	Mechatronics: Certificates in Motion, Sensors, Electronics, Robotics, PMMI Certification	Certified Technician, Robotics Technician to advanced positions in Advanced Manufacturing Technology
	CNC: Certificates in Precision Machining, NIMS Certifications	Certified Technician, Precision Machinist to advanced positions in Advanced Manufacturing Technology
	Industrial Maintenance: Certificate in Machine Maintenance	Certified Maintenance Technician to advanced positions in Advanced Manufacturing Technology
	Welding/Metalworking: AWS, NIMS Certifications	Welder, Advanced Welder to advanced positions in Advanced Manufacturing Technology
	Green Manufacturing: Certificates in Waste Management, Lean Manufacturing	Waste Management Specialist, Lean Manufacturing Specialist to advanced positions in Advanced Manufacturing Technology
Advanced	Associates Degree in Advanced Manufacturing Technology, Associates Degree in Welding	Manufacturing Supervisor, Senior Technician
Professional	Bachelor's Degree in Manufacturing Engineer Technology, Bachelor's Degree in Industrial Management and Technology, Bachelor's in Technical Resource Management, Bachelor's Degree in Industrial Technology, Bachelor's Degree in Electrical Technology, Bachelor's Degree in Welding Engineering Technology	Section Manager, Department Manager, Plant Manager

Gaps Addressed by Grant Priorities and Strategies
Industry prescribed latticed career pathways are not systemically used by INAM members.
Limitations in the number of students served by INAM institutions to meet workforce training demands in the advanced manufacturing sector.
Faculty often limited in their knowledge of best practices for integrating online instruction in advanced manufacturing programs traditionally delivered in face-to-face instruction.
Deficiencies in state-of-the-art and specialized equipment being utilized by employers, including obsolete equipment no longer used by employers.
Weak or non-existent linkages between basic skills/career readiness certifications that lead to an industry recognized credential (Certified Production Technician).
Lack of fast-tracked (one year or less) programming for advanced manufacturing positions.
Inadequate or non-existent processes for assigning credit for prior learning.
Inconsistent entry points to advanced manufacturing programs that articulate specific lattices and pathways and timelines that lead to employment.
No single location for posting advanced manufacturing jobs and résumés of qualified individuals.
Students lack understanding of the job search process, including locating an open position, developing an effective résumé, completing a job application, and interviewing.
Non-unified articulation to four-year colleges in advanced manufacturing programs inhibits transfer and degree completion.
Variable tuition among INAM colleges causes confusion and frustration.
Limited collection and analysis of individual student longitudinal data for continuous program improvement and measurement of student learning and progression.
Negative image of manufacturing adversely impacting recruitment of workers.

Memorandum of Understanding
Between
The Members of The
Illinois Network for Advanced Manufacturing

The purpose of this Memorandum of Understanding (MOU) is to establish the Illinois Network for Advanced Manufacturing (INAM), a collaboration of community colleges in Illinois that will develop pathways and career tracks which include nationally recognized credentials in the advanced manufacturing sector. The lattices and pathways that will be created provide access to highly paid jobs within advanced manufacturing through a myriad of entrance points that match the skill sets and educational aspirations of the prospective students.

INAM Members include:

City Colleges of Chicago
College of DuPage
College of Lake County
Daley College of the City Colleges of Chicago
Danville Area Community College
Elgin Community College
Illinois Eastern Community Colleges
Illinois Valley Community College
John Wood Community College
Joliet Junior College
Kankakee Community College
Kishwaukee College
Lincoln Land Community College
McHenry County College
Oakton Community College
Prairie State College
Richland Community College
South Suburban College
Southwestern Illinois College
Triton College
Waubonsee Community College
William Rainey Harper College

Introduction

Illinois is one of the nation's manufacturing leaders. Recent reports have revealed that Illinois manufacturing contributes \$97 billion to the State's economy. In addition, 34 Illinois manufacturers were included in *Industry Week's* list of the top 500 U.S. manufacturers in 2010.

INAM is pursuing funding that will assist in achieving the following objectives:

- To create educational plans for participants that provide a clear pathway and lattice to industry recognized credentials in advanced manufacturing;

- To build and offer programs along the career pathway and lattice that meet advanced manufacturing industry needs and result in industry-recognized credentials and/or associate degrees;
- To develop online and technology-enabled learning by strategically aligning INAM programs with technology purchased by the Illinois Green Economy Network (IGEN);
- To develop partnerships that include internships and on-the-job training opportunities in advanced manufacturing;
- To provide placement services that connect students to available jobs in advanced manufacturing;
- To develop articulation agreements with four-year colleges and universities that allow students to further their education in advanced manufacturing.

Member Commitments

INAM members are committed to fully supporting the objectives articulated above. By offering robust programming in career readiness, basic advanced manufacturing, specialized skills, conferring of the associates degree, and articulation to baccalaureate completion, this body of work will address the needs of area employers.

Members are also committed to breaking down barriers that impede student success. As such, INAM members agree to work with the Illinois Community College Board (ICCB) to develop a systematic approach that allows students participating in advanced manufacturing programs to be treated as local students, regardless of where they reside or work. This will result in more affordable tuition and fees.

Core to this project is assessment and placement of prospective students in the appropriate programming, based on their skill sets and educational background. This assessment process will lead to the development of an educational plan that guides students through the options available in advanced manufacturing.

Perhaps the most notable aspect of INAMs commitment to providing educational pathways and lattices in advanced manufacturing is the intentional, meaningful, and collaborative input that will continue to be provided by our industry partners. This input will continue to be solicited through a variety of venues including a focused advanced manufacturing task force, advisory committees, and joint meetings with chambers of commerce that are also addressing workforce shortages in this sector.

Organizational Structure

Each INAM community college president, or designee, will serve on the Board of Advisors. This group will meet regularly to facilitate coordination among members, exchange ideas and resources, and ensure achievement of INAM objectives. The president of William Rainey Harper College will serve the initial four-year term as chair. Subsequently, a new chair will be elected every four years.

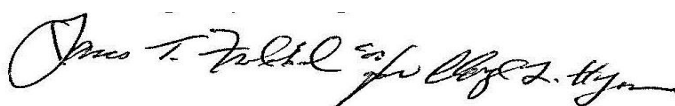
The Board of Advisors will create subcommittees, as needed, to implement specific projects.

New members may be added to INAM at any time as agreed upon by the members. New members will be expected to support the purpose and advancement of INAM objectives and projects through their participation on the Board of Advisors.

Existing partners may withdraw from INAM upon written notice to the INAM chair. However, members view this as an option of last resort and agree to work together in good faith to retain members and resolve issues and hardships that may arise.


Signatures

The undersigned parties agree to the contents of this MOU and Addendum A.

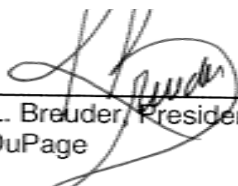


Cheryl L. Hyman, Chancellor
City Colleges of Chicago

5-23-12

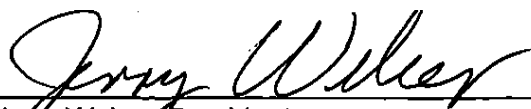

GENERAL COUNSEL

5/22/12
Date



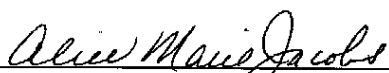
Dr. Robert L. Breuder, President
College of DuPage

5/1/12
Date



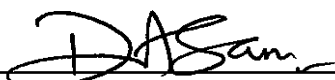
Dr. Jerry Weber, President
College of Lake County

April 27, 2012
Date



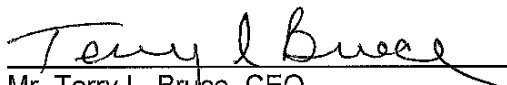
Dr. Alice Marie Jacobs, President
Danville Area Community College

5/3/12
Date



Dr. David Sam, President
Elgin Community College

May 10, 2012
Date

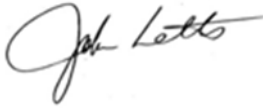


Mr. Terry L. Bruce, CEO
Illinois Eastern Community Colleges

05-01-2012
Date



Dr. Jerry Corcoran, President
Illinois Valley Community College

5/2/12
Date




Dr. John Letts, President
John Wood Community College

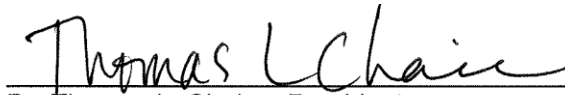
5.1.12
Date


Dr. Debra S. Daniels, President
Joliet Junior College

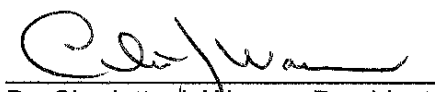
4/30/12
Date


Dr. John Avandano, President
Kankakee Community College

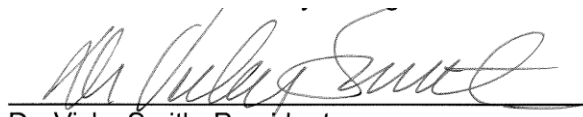
May 1, 2012
Date


Dr. Thomas L. Choice, President
Kishwaukee College

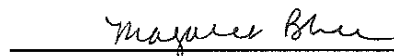
4-27-12
Date


Dr. Charlotte J. Warren, President
Lincoln Land Community College

4/30/12
Date


Dr. Vicky Smith, President
McHenry County College

May 9, 2012
Date

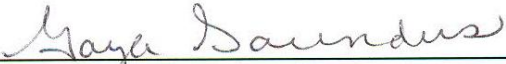

Dr. Margaret B. Lee, President
Oakton Community College

4/27/2012
Date



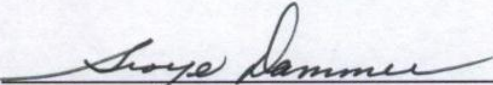
Dr. Eric C. Radtke, President
Prairie State College

5.2.12
Date



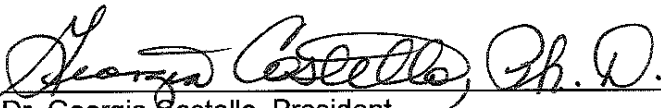
Dr. Gayle M. Saunders, President
Richland Community College

4/27/12
Date



Mr. George Dammer, President
South Suburban College

5.2.12
Date



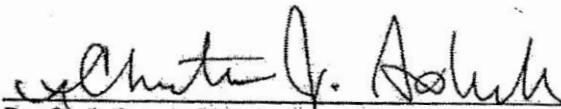
Dr. Georgia Costello, President
Southwestern Illinois College

5-14-12
Date



Dr. Patricia Granados, President
Triton College

5/2/12
Date



Dr. Christine J. Sobek, President
Waubensee Community College

5/4/2012
Date



Dr. Kenneth L. Ender, President
William Rainey Harper College

5/9/12
Date

TAACCCT Grant
Addendum A
to the
Memorandum of Understanding
The Members of The
Illinois Network for Advanced Manufacturing

Purpose

This addendum addresses the specific elements required in applying for TAACCCT funding as a consortium.

Grant Consortium Requirements

1) Reflect an appropriate agreement among two or more eligible institutions as defined in Section III.A, referred to as consortium members, to work together on the grant.

The Memorandum of Understanding between the Members of the Illinois Network for Advanced Manufacturing articulates the agreement between the community colleges in the consortium. In addition, each INAM member acknowledges their agreement to spend funds in accordance with the rules and requirements of the grant.

2) Describe the roles and responsibilities of each consortium member in the design, development, and implementation of the program(s) and acknowledges their agreement to spend funds in accordance with the rules and requirements of the grant.

The 20 community college members of INAM will provide expertise and assistance in curriculum development and training materials, advisory assistance, recruitment of trainees, conferring of certification and degrees, and job placement assistance.

3) Specify the amount of funds that will be awarded to each member and deliverables for which each member will be responsible, broken out by consortium member.

INAM Member	Funds Awarded	Roles/Responsibilities/Deliverables
College of DuPage	\$520,015	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
College of Lake County	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable

		online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Danville Area Community College	\$525,654	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Daley College – City Colleges of Chicago	\$ 86,335	Develop curriculum in CPT and one or more programs in the areas of specialization
Elgin Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Illinois Eastern Community Colleges	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Illinois Valley Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
John Wood Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Joliet Junior College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Kankakee Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Kishwaukee College	\$525,616	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Lincoln Land Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure

		AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
McHenry County College	\$525,743	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Oakton Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Prairie State College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Richland Community College	\$525,755	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
South Suburban College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Southwestern Illinois College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Triton College	\$522,306	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
Waubonsee Community College	\$525,769	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming
William Rainey Harper College	\$2,873,048	Develop bridge and/or NCRC programming; Develop curriculum in CPT and one or more programs in the areas of specialization; Enable online instruction; Assess prior learning; Engage employers; Ensure AAS degree completion and articulation for Bachelor's Degree completion; and Evaluate/measure programming Engage consultant for project evaluation for INAM

		<p>Develop and administer job placement for INAM</p> <p>Enhance the image of advanced manufacturing statewide through intensive marketing efforts</p> <p>Develop and expand articulation agreements with four-year colleges and universities</p> <p>Administer and coordinate the INAM statewide grant over 4 years</p> <p>Disseminate INAM programming to the other 28 community colleges in Illinois</p>
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Total: \$12,939,459

4) Designate one member of the consortium as the Grantee Institution that will serve as the official grantee for DOL.

Grantee Institution is William Rainey Harper College (Harper College).

5) Reflect the agreement of all consortium members to provide the Grantee Institution all information needed to meet the reporting requirements of the grant.

To ensure requirements are met, consortium members are provided funding to hire personnel to monitor grant outcomes and provide data for reporting requirements.



Illinois Network for Advanced Manufacturing

REVIEW of INAM GRANT COMPONENTS

INAM Consortium:	21 Illinois community colleges 100 business partners (employers) 17 local Workforce Investment Boards (WIB) and workNet Centers ICCB, Council for Adult and Experiential Learning (CAEL), Career Builders Assessment Consultants (hired by mid February 2013)
INAM Advisory Board:	21 Consortium College Presidents
INAM Steering Committee:	21 Community Colleges (the working group)
Grant Goal:	Earn & Learn; Laddering/latticing of certificates, AAS degrees & BS degrees; Students can enter at any point
Mitigate barriers by doing or providing to students entering manufacturing programs:	a) online learning b) bridge programs c) skills training d) transition support e) job search assistance f) accelerated programming
Location:	Consortium members serving 36 Illinois counties
Target Population:	1) Veterans 2) TAA- eligible workers 3) Incumbent workers

- 4) Dislocated workers
- 5) all seeking training in Mfg fields (6 in grant)

Total of 6 Manufacturing Occupational Areas:

- 1) Certified Precision Technician (CPT)
- 2) Mechatronics
- 3) Maintenance
- 4) Metal working
- 5) Precision machining (CNC)
- 6) Green fields

Recognized Industry with manufacturing credentials (plus others):

- 1. Certified Production Technician (CPT)
- 2. National Institute for Metalworking (NIMS)
- 3. American Welding Society (AWS)

Grant based on 4 quasi-experimental design evidence principles:

- 1) Simplify institutional & program structures student must navigate
- 2) Align course curricula, define common learning outcomes and assessments, and set high standards for those outcomes
- 3) Collect and use data to inform a continuous improvement process (CQI)
- 4) Built on the Advanced Manufacturing Competency Model

6 Core Elements Required by Dept of Labor (were written into grant):

- 1. Use of evidence in program design
 - a. Create pathways leading to the 6 occupational areas (credentials/degrees)
 - b. Articulation agreements
 - c. Streamline path to courses/credentials/degrees by consistent methodology for conferring prior learning credit, developing student educational plans, focus on devolvement of basic skills through use of bridge programs and the NCRC
 - d. Job placement assistance leading to hiring & sustained employment

2. Stacked & Latticed credentials/degrees
 - a. Industry engagement to identify credentials needed (6 mfg occupational areas)
 - b. Strong partnerships with business (contribution into curriculum, continuous input and feedback from these industry partners, paid internships, job fairs, hiring)
 - c. Designated **lead** consortium colleges to take point on working with partners as well as industry standards to be used to develop or upgrade curricula for all 6 mfg occupational areas so that it can be shared with all 21 CCs to use (then later, all remaining Illinois community colleges)

3. Prior Learning Assessment (PLA)
 - a. Manufacturing programs to incorporate transcript evaluation, career development assessments and skills assessment into a comprehensive structure of prior learning assessment
 - b. To be used for each student target group
 - c. Develop credit for PLA to apply to all credit-barring programs for improved transferability (later state-wide adoption)

Dates: For development and implementation Spring 2013
Be operational by Spring 2014

4. Online & technology-enabled learning
 - a. Incorporating technology into program design & delivery
 - b. Review working with NTER platform for this developed by Dept of Energy (DOE) and being used by College of Lake County with their Illinois Green Economy Network (IGEN) program in 1st round TAA grant awardees
 - c. Expected impact of technology on programs outcomes measured by phasing-in online technology to demonstrate its effectiveness and cost effectiveness
 - d. Incorporation of the “flipped classroom” pedagogy in mfg curricula
5. Transferable articulation
 - a. Adapted by all 21 consortium members
 - b. Work with remaining 27 Illinois CCs to teach technical bridges which serve as entry points for underprepared students; at

completion can get credit for course (streamlining non-credit or credit time)

- c. Plan developed for students to move seamlessly between CCs and 4-yr institutions
- d. Input and collaboration with ICCB and IBHE

Dates: For development and implementation Spring 2013
Be operational by Spring 2014

6. Strategic alignment

- a. Coordination with employers and industry for input and feedback into curricula to align curricula with industry needs
- b. Input and feedback with manufacturing B & I includes: identifying necessary skills and competencies, assisting with curriculum devolvement, program design, hiring students, providing paid internships, mentoring providing equipment and facilities, assisting with training
- c. Coordination with the Public Workforce System
- d. Grant director to monitor feedback loops to ensure efficient flow of information, communication of needs, and awareness of changes to programs and certifications common
Develop placement tool to create opportunity to match qualified students to job postings [web-based]

Date: Expansion of job placement platform to all Illinois CCs
made available in year 4 of funding

Sustainability Plan:

- 1. Grant is test jobs/community college partnership project to later serve as template to roll-out similar project across the country
- 2. Sustainability achieved by integrating innovative programs into existing CC academic units and using tuition dollars to sustain these programs
- 3. Purchase of equipment by grant funds assists in establishing current state-of-the-art manufacturing programs
- 4. All members investigate other grants and funding possibilities
- 5. Member colleges will be assessed proportional fees to generate funding for ongoing activities

Assessment Plan: Part of it is based on the 9 Outcomes written into grant

1. Total unique participants served (new students)
2. Total number of participant completing a TAACCCT-funded program of study
3. Total number of participants still retained in their program of study or other TAACCCT-funded program (years)
4. Total number of participants completing credit hours
5. Total number of credentials awarded
6. Total number of participants enrolled in further education after completing their TAACCCT-funded program of study
7. Total number of participants employed after completing their TAACCCT-funded program of study
8. Total number of participants retained in employment after completing their TAACCCT-funded program of study
9. Total number of those participants employed at enrollment who received a wage increase post-enrollment



Illinois Network for Advanced Manufacturing

FIRST 6 MONTH INAM GRANT MILESTONES

October 2012 – March 2013 (Months 1-6)

- | | |
|-------------------------|--|
| 1. Milestone: Month 1-6 | Inventory current assessments all INAM Consortium community colleges |
| 2. Milestone: Month 1-6 | Engage CAEL & IGEN community colleges to leverage their work;

Convene INAM task force leading this work |
| 3. Milestone: Month 1-6 | Inventory of current bridged programs in INAM Consortium community colleges focused on preparing students in manufacturing;

Convene INAM task force leading this work |
| 4. Milestone: Month 1-6 | Purchase supplies & licenses for NCRC (National Career Readiness Certificates) |
| 5. Milestone: Month 1-6 | Purchase & install equipment to increase capacity (number of students) |
| 6. Milestone: Month 1-6 | Inventory current articulation agreements of INAM Consortium community colleges |

Quarterly Report due: February 14, 2013

Reporting on efforts and activities occurring between
October 1, 2012 - December 31, 2012

EARN AND LEARN ADVANCED MANUFACTURING CAREER LATTICE PROGRAM Priorities and Strategies	
Priority 1.0	Create educational plans that provide a clear pathway and lattice to industry-recognized credentials in advanced manufacturing.
Strategy 1.1	Develop educational plans outlining coursework and timelines.
Strategy 1.2	Develop a mechanism for awarding academic credit for prior learning.
Priority 2.0	Implement programs along the career pathway and lattice that meet advanced manufacturing industry needs and result in industry-recognized credentials and/or associate degrees.
Strategy 2.1	Offer bridge programs in technical skills.
Strategy 2.2	Offer programming leading to the National Career Readiness Certificate (NCRC).
Strategy 2.3	Enhance programming in areas of specialization certificate programs.
Strategy 2.4	Offer associate degree completion.
Priority 3.0	Develop online and technology-enabled learning by strategically aligning INAM programs with technology purchased by the Illinois Green Economy Network (IGEN), a first-round TAA awardee.
Strategy 3.1	Engage in a partnership with IGEN in using National Training Education Resource (NTER) System.
Priority 4.0	Develop partnerships with employers that include paid internships and on-the-job training opportunities in advanced manufacturing.
Strategy 4.1	Engage employers to secure paid internships and on-the-job training.
Strategy 4.2	Conduct regular employer input and feedback sessions.
Priority 5.0	Provide placement services that connect students to available jobs in advanced manufacturing.
Strategy 5.1	Develop a platform that provides job posting capabilities for employers and résumé posting for students.
Strategy 5.2	Enhance the image of advanced manufacturing.
Priority 6.0	Improve articulation of credit between two-year and four-year colleges to facilitate pursuit of additional education in advanced manufacturing.
Strategy 6.1	Develop articulation agreements with four-year colleges and universities.

Project Work Plan						
Priority 1: Create educational plans that provide a clear pathway and lattice to industry-recognized credentials in advanced manufacturing						
Strategy 1.1: Develop educational plans outlining coursework and timelines (Core Element #2 Stacked & Latticed Credentials)						
Activities	Implementers	Costs		Time		Deliverables
Develop individualize educational plans outlining coursework and timelines by: *Assessing educational readiness and other skills *Providing career coaching services	INAM Colleges Lead college: Harper	Strategy Total:	\$ 583,517	Start Date	September 2012	*Report on assessment and career coaching development *Report on numbers and percentages of TAA-eligible and others entering credit coursework
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 224,078	*Months 7-12: Develop and offer consistent assessments; Develop and implement career coaching processes *Months 13-48: Measure effectiveness of the strategy		
		Year 2:	\$ 154,784			
		Year 3:	\$ 143,347			
		Year 4:	\$ 61,308			
		Milestones: Months 1-6: Inventory current assessments				
Strategy 1.2: Develop a mechanism for awarding academic credit for prior learning (Core Element #4 Transferability & Articulation)						
Activities	Implementers	Costs		Time		Deliverables
Create processes for awarding credit by: *Utilizing CAEL as a means of validating past experiences and non-credit programming pursued outside of higher education *Conferring credit for non-credit programming pursued within the colleges	INAM Colleges Lead college: Harper	Strategy Total:	\$528,974	Start Date	September 2012	*Report on CAEL implementation and progress on conferring credit for non-credit classes *Report numbers and percentages of TAA-eligible and others completing certificates and degrees
		Equipment:	\$0	End Date	August 2016	
		Year 1:	\$ 179,329	*Months 7-18: Plan for conferring credit is finalized and disseminated to other INAM colleges *Months 19-36: Credit for prior learning processes are implemented and measured for effectiveness *Months 37-48: Measure effectiveness of the strategy		
		Year 2:	\$ 163,772			
		Year 3:	\$ 128,959			
		Year 4:	\$ 56,914			
		Milestones: Months 1-6: Engage CAEL and IGEN community colleges to leverage their work; Convene steering committee of INAM colleges who will lead effort				
Priority 2: Implement programs along the career pathway and lattice that meet advanced manufacturing industry needs and result in industry-recognized credentials and/or associate degrees						
Strategy 2.1: Offer bridge programs in technical skills (Core Element #1 Evidenced-based Design; Core Element #2 Stacked & Latticed Credentials)						
Activities	Implementers	Costs		Time		Deliverables
Enhance readiness to pursue programming in advanced manufacturing by: *Creating technical bridge programs that complement advanced manufacturing	INAM colleges Lead colleges: *CPT- Kankakee *Mechatronics - MCC *CNC - Waubensee *Industrial Maintenance. - PSC *Welding - COD	Strategy Total:	\$ 745,526	Start Date	September 2012	*Report on students entering into credit-bearing programs *Report numbers and percentages of TAA-eligible and others completing certificates and degrees
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 237,059	Months 7-12: Finalize and begin offering technical bridge programs *Months 13-48: Measure effectiveness of the strategy		
		Year 2:	\$ 219,252			
		Year 3:	\$ 214,772			
		Year 4:	\$ 74,443			
		Milestones: Months 1-6: Conduct inventory of current bridge				

Project Work Plan						
	*Green - Danville	programs focused on preparing students in manufacturing; Convene committee of INAM colleges offering NCRC to lead effort				
Strategy 2.2: Offer programming leading to the National Career Readiness Certificate (NCRC) (Core Element #2 Stacked & Latticed Credentials)						
Activities	Implementers	Costs		Time		Deliverables
Enhance readiness to pursue programming in advanced manufacturing by: *Offering opportunities for National Career Readiness Certificate (NCRC)	INAM colleges Lead college: Joliet	Strategy Total:	\$ 1,416,428	Start Date	September 2012	*Report on implementation of NCRC *Report numbers and percentages of TAA-eligible and others finding employment and/or internships
			\$ 381,899 (also included in totals below)	End Date	August 2016	
		Equipment:		Milestones: *Months 1-6: Purchase supplies and licenses for NCRC *Months 7-36: Implement NCRC and related WorkKeys *Months 37-48: Measure effectiveness of the strategy		
		Year 1:	\$ 982,053			
		Year 2:	\$ 169,992			
		Year 3:	\$ 159,514			
Year 4:	\$ 104,869					
Strategy 2.3: Enhance programming in areas of specialization certificate programs (Core Element #1 Evidenced-based design; Core Element #2 Stacked & Latticed Credentials; Core Element #3 Online and Technology –enabled Learning; Core Element #4 Strategic Alignment)						
Activities	Implementers	Costs		Time		Deliverables
Enhance and expand programming that provides nationally recognized credentials and certificates that meet industry needs by: *Offering classes leading to the Certified Production Technician *Expanding capacity in: Mechatronics, CNC, Industrial Maintenance, Welding, Green Manu.	INAM colleges Lead colleges: *CPT- Kankakee *Mechatronics - McHenry *CNC - Wabaunsee *Industrial Maintenance - Prairie State *Welding - College of DuPage *Green - Danville	Strategy Total:	\$ 7,270,655	Start Date	September 2012	*Report on purchase of equipment *Report on development and implementation of curricula *Report numbers and percentages of TAA-eligible and others completing certificates and degrees *Report numbers and percentages of TAA-eligible and others finding employment and/or internships *Curriculum and program materials
			\$3,381,735 (also included in totals below)	End Date	August 2016	
		Equipment:		*Months 1-12: Develop curricula including degrees and certificates *Months 13-36: Implement curricula *Months 37-48: Measure effectiveness of the strategy		
		Year 1:	\$ 4,601,557			
		Year 2:	\$ 1,669,987			
		Year 3:	\$ 884,327			
Year 4:	\$ 114,784					
		Milestones: Months 1-6: Purchase and install necessary equipment to increase capacity				

Project Work Plan						
Strategy 2.4: Offer associate degree completion (Core Element #4 Transferability & Articulation)						
Activities	Implementers	Costs		Time		Deliverables
Enhance and expand programming that provides nationally recognized credentials, certificates, and associates degrees that meet industry needs by: *Providing associates degree completion options	INAM colleges Lead college: Harper	Strategy Total:	\$ 699,028	Start Date	September 2012	*Report on progress with articulation agreements by monitoring student completions *Report data on salary enhancements due to degree completion
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 106,305	*Months 7-12: Expand articulation agreements to all INAM colleges *Months 13-24: Expand articulation agreements with all Illinois community colleges *Months 25-48: Measure effectiveness of the strategy		
		Year 2:	\$ 107,012			
		Year 3:	\$ 405,907			
		Year 4:	\$ 79,804			
		Milestones: *Months 1-6: Inventory existing articulation agreements for all INAM colleges				
Priority 3: Develop online and technology-enabled learning by strategically aligning INAM programs with technology purchased by the Illinois Green Economy Network (IGEN) first round TAA awardee						
Strategy 3.1: Engage in partnership with IGEN in using NTER System (Core Element #3 Online & Technology-Enabled Learning)						
Activities	Implementers	Costs		Time		Deliverables
Enhance and build capacity for online and technology enabled learning in advanced manufacturing by: *Leveraging the work of IGEN (College of Lake County first round TAA grantee) to implement the NTER platform using Ilias Learning Management System *Testing the concept of the flipped classroom	INAM colleges IGENs work with SRI (first round TAA award)	Strategy Total:	\$ 827,052	Start Date	September 2012	*Report progress in implementation and integration with IGEN and SRI *Report on the progress and impact of the flipped classroom *Report numbers and percentages of TAA-eligible and others completing certificates and degrees
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 262,280	*Months 13-24: Train staff and implement NTER; Train staff and test flipped classroom concept *Months 25-36: Deploy the NTER system for course delivery and measurement; Increase flipped classroom instances *Months 37-48: Measure effectiveness of the strategy		
		Year 2:	\$ 237,583			
		Year 3:	\$ 263,351			
		Year 4:	\$ 63,838			
		Milestones: Months 1-12: Coordinate implementation of technology enhancements to accommodate NTER; Form work team for development of flipped classroom techniques				
Priority 4: Develop partnerships with employers that include internships and on-the-job training opportunities in advanced manufacturing						
Strategy 4.1: Engage employers to secure internships and on-the-job training (Core Element #5 Strategic Alignment)						
Activities	Implementers	Costs		Time		Deliverables
Garner regular employer input and support by: *Hosting regular advisory sessions locally and statewide focusing on the workforce needs in advanced	INAM colleges Manufacturers Illinois Manufacturers' Association	Strategy Total:	\$ 850,137	Start Date	September 2012	*Report progress and completion of meetings with manufacturers *Report on numbers and percentages of
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 309,576	Milestones: *Months 1-12: Host 2 meetings to review program implementation *Months 13-36: Host 4 meetings		
		Year 2:	\$ 269,773			
		Year 3:	\$ 206,396			
		Year 4:	\$ 64,392			

Project Work Plan						
manufacturing				to review progress *Months 37-48: Measure effectiveness of the strategy		TAA-eligible and others completing certificates and degrees
Strategy 4.2: Conduct regular employer input and feedback sessions (Core Element #5 Strategic Alignment)						
Activities	Implementers	Costs		Time		Deliverables
Garner regular employer input and support by: *Securing internships and on-the-job training opportunities for students	INAM colleges Manufacturers Illinois Manufacturers' Association	Strategy Total:	\$ 427,862	Start Date	September 2012	*Report progress and completion of meetings with local task forces *Report on numbers and percentages of TAA-eligible and others finding employment and/or internships
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 122,451	*Months 13-26: Local task forces meet a minimum of twice annually *Months 37-48: Measure effectiveness of the strategy		
		Year 2:	\$ 121,009			
		Year 3:	\$ 125,743			
		Year 4:	\$ 58,659			
		Milestone: Months 1-12: Engage local manufacturing task forces				
Priority 5: Provide placement services that connect students to available jobs in advanced manufacturing						
Strategy 5.1: Develop a platform that provides job posting capabilities for employers and resume posting for students (Core Element #5 Strategic Align)						
Activities	Implementers	Costs		Time		Deliverables
Create job opportunities for students in advanced manufacturing programs by: * Forming a partnership with CareerBuilder for customized site for INAM students and employers	INAM colleges Lead college: *Harper College Other partners: *CareerBuilder *Manufacturers	Strategy Total:	\$ 605,272	Start Date	September 2012	*Report progress on job site development and development of marketing plan *Report on numbers and percentages of TAA-eligible and others finding employment and/or internships
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 188,360	*Months 25-36: Review effectiveness of job site and make adjustments, accordingly *Months 37-48: Measure effectiveness of the strategy		
		Year 2:	\$ 201,665			
		Year 3:	\$ 160,185			
		Year 4:	\$ 55,062			
		Milestones: *Months 1-12: Create job site *Months 13-24: Activate job site				
Strategy 5.2: Enhance the image of advanced manufacturing (Core Element #5 Strategic Alignment)						
Activities	Implementers	Costs		Time		Deliverables
Create job opportunities for students in advanced manufacturing programs by: *Developing marketing initiatives that enhance the image of advanced manufacturing and highlight	*INAM *Harper College *Kishwaukee College *Championnow.org *College Marketing Departments	Strategy Total:	\$ 750,101	Start Date	September 2012	*Report progress on marketing plan development *Report progress on marketing plan deployment *Report on numbers
			\$ 50,000 (also included in totals below)			
		Equipment:		End Date	August 2016	
		Year 1:	\$ 272,992	Months 25-36: Review effectiveness of the marketing campaign and make adjustments, accordingly; Leverage campaign		
		Year 2:	\$ 215,052			
		Year 3:	\$ 204,645			
		Year 4:	\$ 57,412			

Project Work Plan						
the high tech jobs available in this sector		Milestones: *Months 1-12: Create a marketing plan with feedback from manufacturers, Illinois Manufacturers' Association, K-12 schools, championnow.org and marketing professionals *Months 13-18: Create materials, videos, and procure other items, such as ads that are identified in the marketing plan *Months 19-24: Launch the marketing effort statewide by expanding reach to all Illinois community colleges		with other resources and initiatives underway through the Illinois Manufacturers' Association and The Manufacturing Institute; Share best practices for engaging the public statewide and nationwide		and percentages of TAA-eligible and others pursuing coursework in advanced manufacturing *Report on numbers and percentages of TAA-eligible and others completing certificates and degrees *Report on numbers and percentages of TAA-eligible and others finding employment and/or internships
Priority 6: Improve articulation of credit between two-year and four-year colleges to facilitate pursuit of additional education in advanced manufacturing						
Strategy 6.1: Develop articulation agreements with four-year colleges and universities (Core Element 5 Transferability & Articulation)						
Activities	Implementers	Costs		Time		Deliverables
Enhance articulation agreements and create new ones leading to bachelor degrees by: *Engaging four-year institutions in creating articulation agreements in all areas of specialization *Working in partnerships with four-year institutions to develop seamless pathways to bachelor degree through dual admission that link community colleges to defined programs of study in advanced manufacturing	INAM colleges Lead colleges: *Harper College *Kishwaukee College *Other partners: Four-year colleges (SIU, NIU, ISU)	Strategy Total:	\$ 283,263	Start Date	September 2012	*Report on progress with articulation agreements by monitoring student progress post community college completion *Report numbers and percentages of TAA-eligible and others finding employment and/or internships *Report on income enhancements of TAA-eligible and others
		Equipment:	\$ 0	End Date	August 2016	
		Year 1:	\$ 88,267	*Months 13-24 (continued): Expand availability of articulation agreements to all community colleges in Illinois *Months 25-48: Measure effectiveness of the strategy		
		Year 2:	\$ 88,198			
		Year 3:	\$ 61,309			
		Year 4:	\$ 45,489			
		Milestones: *Months 1-6: Inventory existing articulation agreements for all INAM colleges *Months 7-12: Expand current articulation agreements to all INAM colleges *Months 13-24: Engage additional four-year schools to increase articulation agreements				

Identified Task Force Convening and Lead Colleges For Priorities & Strategies

Convening colleges agreed to facilitate grant task force meetings.

Lead colleges are known as centers of excellence in identified manufacturing programs or topics and will lead the accomplishment of an identified grant deliverable (Table 2). **Lead colleges** currently have highly developed programs and will provide program assistance to the task force which will later disseminate its finished work to the consortium (colleges, WIBs, business partners, etc.) for feedback and further collaboration. The task force deliverable is to be shared with all consortium members to adopt and use, and later to be shared with all Illinois community colleges.

Mostly likely, the convening and lead designations will coalesce into a single identified college. Table 1 identifies topics of the task force aligned with the grant strategies of the 6 priorities and the convening colleges, lead colleges, and INAM partnering colleges.

Table 1. Identified Task Force, Priorities, Strategies with Convening and Lead Colleges

Program/Topics	Convening Colleges	Lead Colleges	Partner Colleges	Certifications/Outcomes
Educational plans (Strategy 1.1)	Harper	Harper	All INAM Colleges	Develop education plan format for those students participating in the grant funded Mfg programs of study to be used by Illinois community colleges (continuity)
Prior learning credit (Strategy 1.2)	Oakton	Harper	All INAM Colleges	Create a Prior Learning Assessment (PLA) program to be used by Illinois community colleges (continuity)

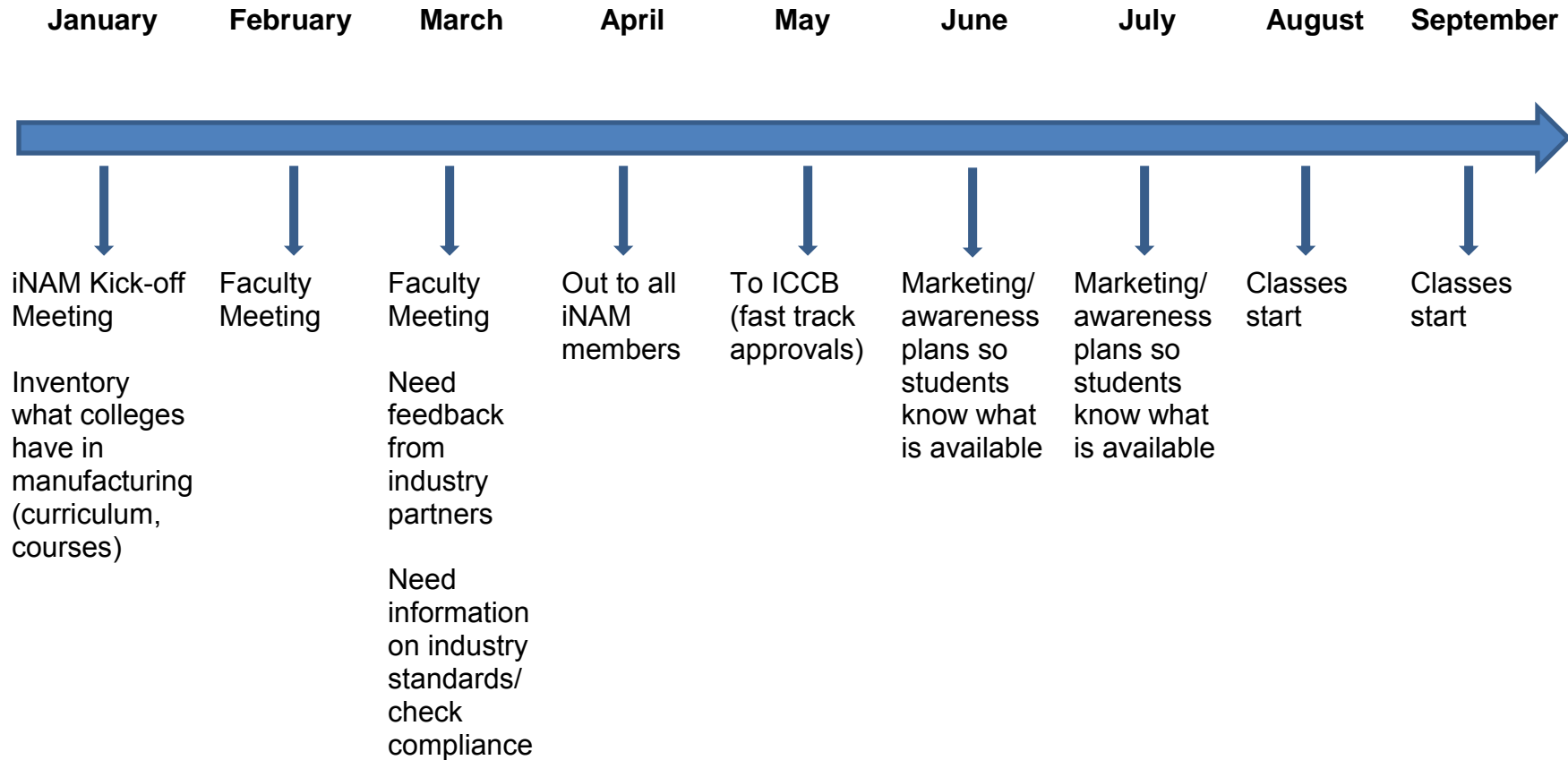
Program/Topics	Convening Colleges	Lead Colleges	Partner Colleges	Certifications/Outcomes
Bridge programs for technical skills (Strategy 2.1)	Joliet Junior College	IECC, Lincoln Land, IVCC, Oakton, Prairie State, South Suburban, Triton, Waubonsee	All INAM Colleges	Design a bridge program applicable to Mfg programs of study to be used by Illinois community colleges
Enhancing readiness/ NCRC (Strategy 2.2)	Joliet	Joliet	All INAM Colleges	Develop NCRC (National Career Readiness Certification) program to be used by Illinois community colleges (continuity)
Mechatronics (Strategy 2.3) Note: Table 2	McHenry	IVCC, Triton, McHenry	All INAM Colleges	PMMI Mechatronics Certificate (Package Machinery Manufacturers Institute)
Maintenance (Strategy 2.3) Note: Table 2	Prairie State	South Suburban, Southwestern	All INAM Colleges	IMI (Industrial Maintenance International)
Metal working – (Welding) (Strategy 2.3) Note: Table 2	College of DuPage	Kankakee	All INAM Colleges	AWS (American Welding Society)
Precision machining (CNC) (Strategy 2.3) Note: Table 2	Waubonsee	Lake county	All INAM Colleges	NIMS (National Institute for Metalworking)
Green (Strategy 2.3) Note: Table 2	Danville	Richland, Danville	All INAM Colleges	SME (Society of Manufacturing Engineers)
CPT (Strategy 2.3) Note: Table 2	Kankakee	Kankakee, IVCC, South Suburban, Harper	All INAM Colleges	MSSC (Manufacturing Skills Standards Certification)
Ass. Degree completion (Strategy 2.4)	Harper	Harper	All INAM Colleges	Discover creative avenues colleges can award AAS Mfg degrees to increase the number of Illinois students with degrees
Online & Tech-enabled learning (Strategy 3.1)	Harper	College of Lake County: IGEN project/ NTER platform	All INAM Colleges	Enhance & create ways to embed online & tech-enabled learning in Mfg certificate and degree programs of study
Develop Manufacturing Partnerships (Strategy 4.1; 4.2)	Harper ; All INAM Colleges	All INAM Colleges	All INAM Colleges	Establish and sustain partnerships between Mfg businesses and Illinois community colleges

Program/Topics	Convening Colleges	Lead Colleges	Partner Colleges	Certifications/Outcomes
Provide web-based job placement services (Priority 5.1)	Harper	Harper	All INAM Colleges	Establish centralized Web-based job-placement service for those in the Mfg field to enable linking employers needs with qualified employees
Advance manufacturing image (Strategy 5.2)	Harper	Harper	All INAM Colleges	Create and launch marketing campaign for Mfg field to be used in Illinois community colleges
Enhance articulation agreement to 4Yr institutions (Strategy 6.1)	Harper	Harper Kishwaukee	All INAM Colleges	Increase number and ease of students with AAS Mfg degrees matriculating to Illinois colleges with 4 year degrees in various Mfg programs of study

Table 2. Six INAM Grant Identified Manufacturing Programs of Study and Lead Colleges

Program	Convening Colleges	Lead Colleges	Partner Colleges	Certifications
CPT (entry level)	Kankakee	Kankakee, IVCC, South Suburban	All INAM Colleges	MSSC (Manufacturing Skills Standards)
Mechatronics	McHenry	IVCC, Triton	All INAM Colleges	PMMI Mechatronics Certificate (Package Machinery Manufacturers Institute)
Maintenance Industrial	Prairie State	South Suburban, Southwestern	All INAM Colleges	IMI (Industrial Maintenance International)
Metal working - Welding	College of DuPage	Kankakee	All INAM Colleges	AWS (American Welding Society)
Precision Machining (CNC)	Waubonsee	Lake county	All INAM Colleges	NIMS (National Institute for Metalworking)
Green	Danville	Richland	All INAM Colleges	SME (Society of Manufacturing Engineers)

Curriculum Timeline for Starting Classes in Fall 2013



INAM Meeting
January 7-8, 2013

GRANT PRIORITY COLLEGE WORKSHEET

Priority 1.0: Create educational plans that provide a clear pathway and lattice to industry-recognized credentials in advanced manufacturing.

PRIORITY	COLLEGE DELIVERABLE	DATE DUE
<p><u>Strategy 1.1: Develop educational plans outlining coursework and timelines.</u></p> <p>INAM members will collaborate with WIBs and veterans associations to develop comprehensive intake assessments and related individualized educational plans and career plans outlining coursework and timelines.</p> <p>To lessen tuition complexity and tuition barriers to entry, INAM members will provide financial aid counseling, implement in-district tuition agreements, and provide greater transparency for tuition rates and scholarship availability.</p>		
<p><u>Strategy 1.2: Develop a mechanism for awarding academic credit for prior learning.</u></p> <p>INAM members will develop a process to recognize prior education and experience in order to ensure efficient and timely transition from training to certificate, credential, or degree.</p> <p>Adapting the methodology for</p>		

recognizing prior education and experience developed by Council for Adult and Experiential Learning (CAEL), the mechanism will ensure that each participant takes the most advanced “on-ramp” to the career pathway that he or she has earned through rigorous assessment of both academic achievement and work/life experience.		
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Priority 2.0: Implement programs along the career pathway and lattice that meet advanced manufacturing industry needs and result in industry-recognized credentials and/or associate degrees.

PRIORITY	COLLEGE DELIVERABLE	DATE DUE
<p><u>Strategy 2.1: Offer bridge programs in technical skills.</u></p> <p>Technical bridge programs that meet industry needs will be developed with input from industry members of the INAM consortium to ensure that programs include portable, latticed, and stackable credentials. The programs will include basic skills instruction where needed and integrate career readiness skills into instruction.</p> <p>To facilitate acquisition of skills that can lattice across multiple programs, INAM members are committed to providing accelerated programming. For example, coursework will be modularized to prevent duplication of material and intentionally sequenced to allow seamless movement to advanced classes.</p>		

<p>INAM members are also committed to exploring other alternative programming methodologies that accelerate completion, such as competency-based computerized instruction and contextualized learning practices.</p>		
<p><u>Strategy 2.2: Offer programming leading to the National Career Readiness Certificate (NCRC).</u></p> <p>The NCRC is recognized by NAM as a baseline credential in advanced manufacturing.</p> <p>The WorkKeys assessment that leads to the NCRC provides a measurement of cognitive skills and work-related behaviors, or soft skills, which helps predict an individual's success at work or in training.</p>		
<p><u>Strategy 2.3: Enhance programming in areas of specialization certificate programs.</u></p> <p>The Earn and Learn Program will provide industry-recognized credentials, beginning with the Manufacturing Skills Standards Council's (MSSC) Certified Production Technician.</p> <p>Certifications will also be offered in areas of specialization including mechatronics, precision machining, industrial maintenance, welding and green manufacturing.</p> <p>Academic support including tutoring, mentoring, supplemental instruction, learning communities, academic success workshops, and new student orientation will be offered.</p>		

INAM members will incorporate ongoing curriculum development to keep pace with changing industrial needs. Employers will provide entry-level paid internships, facilities usage, and equipment.		
<u>Strategy 2.4: Offer associate degree completion.</u> The same strategy 2.3 components and program support will be incorporated to strengthen degree completion opportunities for TAA students.		

Priority 3.0: Develop online and technology-enabled learning by strategically aligning INAM programs with technology purchased by the Illinois Green Economy Network (IGEN), a first-round TAA awardee.

PRIORITY	COLLEGE DELIVERABLE	DATE DUE
<u>Strategy 3.1: Engage in a partnership with IGEN in using National Training Education Resource (NTER) System.</u> Online and technology-enhanced courses will be developed building on technical support leveraged through the National Training & Education Resource (NTER), developed by SRI. This system was purchased by IGEN (a first round TAA awardee). The partnership will provide shared courses and flexible learning environments. IGEN will provide training on the NTER system to faculty of INAM colleges. This training will utilize technology to offer interactive courses, explore		

<p>shared resources, and integrate NTER with proprietary systems, such as Blackboard.</p> <p>Colleges will offer technical theory instruction online and where appropriate offer developmental English and mathematics courses in an online/hybrid format.</p>		
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Priority 4.0: Develop partnerships with employers that include paid internships and on-the-job training opportunities in advanced manufacturing.

PRIORITY	COLLEGE DELIVERABLE	DATE DUE
<p><u>Strategy 4.1: Engage employers to secure paid internships and on-the-job training.</u></p> <p>INAM members will continue to engage employers as a means of securing paid internships and on-the-job training opportunities for students.</p> <p>Thus, students will be able to apply their new skills in a manufacturing environment and employers will be able to determine if students will fit properly into their organizational cultures.</p>		
<p><u>Strategy 4.2: Conduct regular employer input and feedback sessions.</u></p> <p>A continuous communication structure for the Earn and Learn Program will ensure that partnerships with employers include regular meetings with ongoing opportunities to review program progress, make adjustments, and</p>		

<p>integrate input and feedback into the program.</p> <p>Quarterly surveys will be conducted and semi-annual meetings will be held with employers to gather qualitative information via focus groups.</p>		
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Priority 5.0: Provide placement services that connect students to available jobs in advanced manufacturing.

PRIORITY	COLLEGE DELIVERABLE	DATE DUE
<p><u>Strategy 5.1: Develop a platform that provides job posting capabilities for employers and résumé posting for students.</u></p> <p>INAM members will use CareerBuilder to create a customized site for employers and students that focuses specifically on advanced manufacturing jobs. CareerBuilder is the industry leader in online services for job seekers, employers and recruiters.</p>		
<p><u>Strategy 5.2: Enhance the image of advanced manufacturing.</u></p> <p>Through partnerships within and outside of the project, INAM members will work with manufacturers to develop a marketing plan to enhance the image of high tech manufacturing jobs.</p>		

Priority 6.0: Improve articulation of credit between two-year and four-year colleges to facilitate pursuit of additional education in advanced manufacturing.

PRIORITY	COLLEGE DELIVERABLE	DATE DUE
<p><u>Strategy 6.1: Develop articulation agreements with four-year colleges and universities.</u></p> <p>Through partnering with area four-year institutions, INAM members will create articulation agreements that will lead to advanced degrees that support manufacturing.</p> <p>For articulation agreements already in place, including those prescribed by the Illinois Articulation Initiative (IAI), INAM members will leverage those agreements to create new pathways to bachelors and advanced degrees.</p>		

For Priority 6: A sample of existing agreements is included in the table below.

Degree Articulation	College or University
AAS in Construction Mgmt to BS in Industrial Mgmt & Technology	Northern Illinois University
AAS in Manufacturing Mgmt to BS in Industrial Technology	Southern Illinois University Carbondale
AAS in Construction Mgmt to BS in Applied Engineering Technology - Construction	Eastern Illinois University
AAS to BS in Technical Management	DeVry University
AAS to BS in Applied Management	Franklin University
AAS to BS in Welding Engineering Tech.	Ferris State University