



Manufacturing Partnership Incentive (MPI) Grant Request for Proposal

Proposal deadline: September 5, 2014, 5 pm MST
Award announcements: September 19, 2014
Funds issued by: October 1, 2014
Final closeout report/presentations: C.O.B. May 1, 2015

Organization Name, Address and Authorizing Signature:

Organization Name

Mailing Address, City & Zip

Authorizing Signature and Title (Agency administrator authorized to approve applications and administer grants)

Person responsible for answering questions about this RFP:

Name: _____ Position: _____

Telephone: _____ Email: _____

Proposals must be received by the deadline listed. Please send hard copy or electronic version to: Ben Nesbitt, Program Director for Skilled Trades and Technical Sciences, 9101 East Lowry Blvd, Denver, CO 80230, Ben.Nesbitt@cccs.edu

Format: Proposals accepted in Microsoft Word, ver. 2010 or newer, font Arial 12, 1.0" margins, maximum of 10 pages, single spaced.

Background

The Colorado Manufacturing Career Pathway Initiative is an innovative collaboration of manufacturing, education and labor leaders that provides a roadmap to prepare the manufacturing workforce for rewarding, high-skill, high-wage and sustainable careers in the advanced manufacturing sector. The initiative, by agreement with state-wide manufacturers, identifies the fundamental and advanced skills and competencies required to succeed in the manufacturing sector.

The goal of the Manufacturing Career Pathway is to (1) Provide career exploration information for students in middle school interested in pursuing a career in advanced manufacturing; (2) Develop of secondary programs that offer a clearly-defined pathway to the acquisition of industry-desired stackable certifications, Associate, Bachelor or graduate degrees designed with industry input; (3) Identify multiple entry and exit points offering opportunities for workers re-entering the workforce or existing individuals looking for career advancement; (4) Identify of the academic, workplace and technical competencies identified by manufacturing employers necessary for career progression in high-demand manufacturing occupations; and, (5) Include technical skill assessments, academic and career counseling and other support services.

Career Title Examples *(Source: Colorado Dept. of Labor & Employment, Labor Market Information 2012)*

✓ CNC Machine Tool Operator - \$37,300	✓ Industrial Machinery Maintenance Technicians - \$49,700	✓ Manufacturing Engineer - \$97,100
✓ Electromechanical Equipment Assembler - \$34,047	✓ Quality Assurance Inspector - \$39,722	✓ Mechanical Engineer - \$81,559
✓ Machinist - \$49,711	✓ Supply & Logistics Technician - \$47,300	✓ Aerospace Engineer - \$105,000
✓ Welder - \$44,673	✓ Industrial Engineer - \$86,000	✓ Operations & Plant Manager - \$130,505

Regional and State-Wide Pathways

Emerging trends in the U.S. indicate that communities that create sector partnerships between multiple school districts, post-secondary institutions, workforce agencies, and private employers are achieving successful career development programs that support multiple sector talent pipelines or “Career Pathways”.

In support of this state-wide effort, the HB13-1165 initiative can only be effective if it reaches the communities and regions that are collaborating towards common goals for their citizens, employers, and the state’s economy. To that end, through the HB13-1165 legislation, MPI grants will be available to assist communities across Colorado develop or enhance educational programs as part of their regional strategy to support careers in the expanding manufacturing sector.

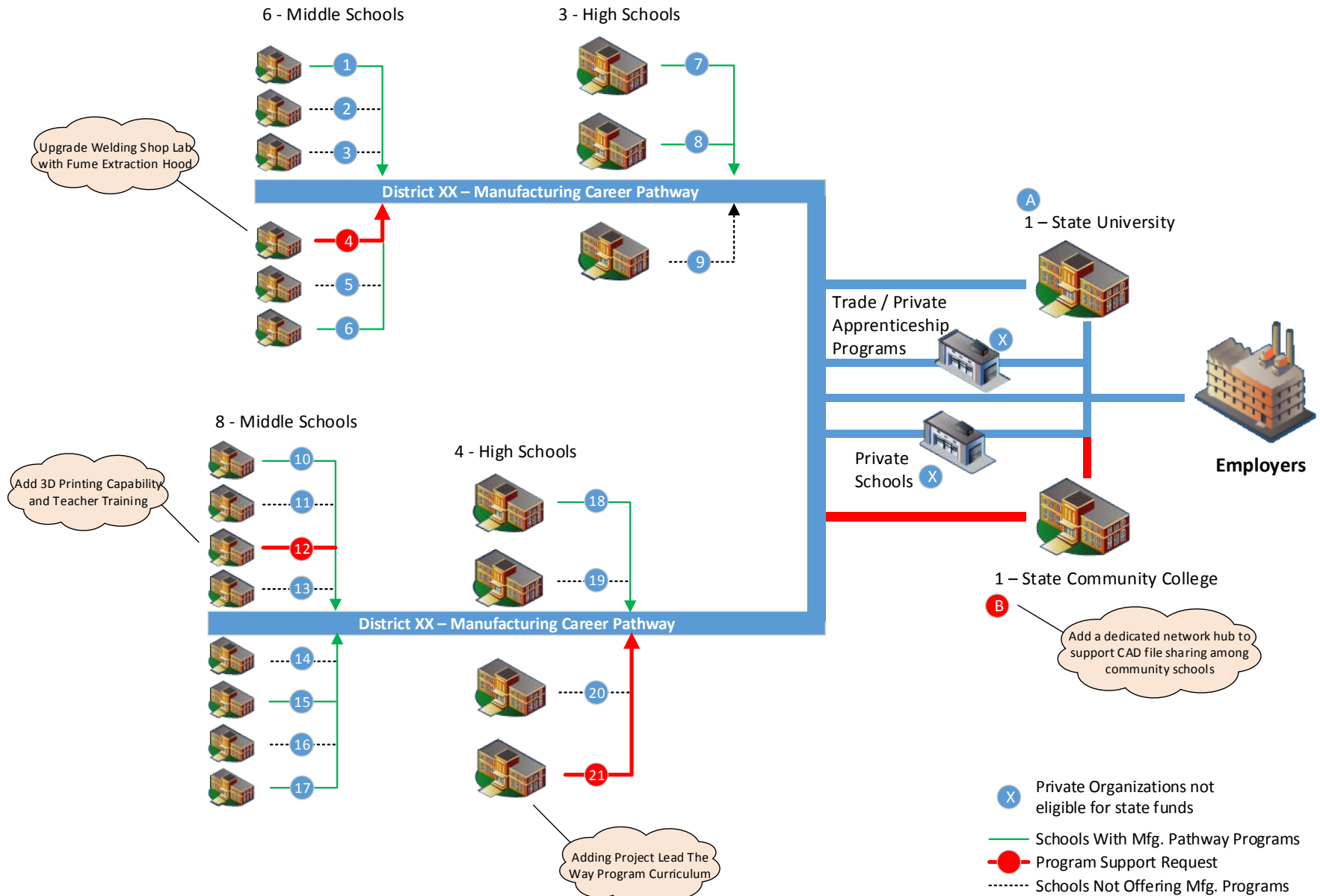
The intent for the MPI grants is to provide funding that will assist in developing or enhancing a systemic approach in communities across Colorado supporting educational career pathways for manufacturing. Proposals submitted should include regional strategies that cross school districts and post-secondary institutions for clearly defined targeted needs in support of the manufacturing career pathway.

Proposed Funding Options

Five one-time competitive based grants are available. Maximum grant request is \$40,000.00.

- ✓ Grant proposals must show collaboration between k-12, postsecondary and workforce partners resulting in new certificates\models that can be shared across the state. Proposals must relate to in-demand manufacturing occupations as identified by the micro-summit process.

Example: Community / Regional Manufacturing Career Pathway Strategy



Project Overview

(max. - 3 pages)

An example of a manufacturing career pathway is shown above that is inclusive of several schools that either offer courses or programs that support the pathway, or intend to create a bridge to a new pathway. As you establish where MPI funding can make the biggest impact in your community in support of careers in manufacturing, we suggest a basic strategy for your community's approach include input from local or regional manufacturers, and a graphic representation to clearly show linkages. Funding can be split among several schools in more than one district or campus, or concentrated to one location.

Due to the limited funding level for these MPI grants, please provide a clear connection indicating how these funds will augment existing strategies in your community for implementing or enhancing manufacturing career pathways. For example, if several schools are utilizing funding for programs considered as STEM initiatives, there may be a natural link between those efforts and the use of these MPI grant funds to expand the outcomes. Special consideration will be given to communities that prioritize how funds would strengthen the existing pathway(s) or create new ones that impact critical manufacturing career pathways identified by employers in the micro-summit process.

Please provide a detailed description of the proposed project, how it displays collaboration among your community's educational organizations including public school districts, community colleges, and universities. The proposal should reflect a brief overview of the existing manufacturing career pathways and educational programs at the schools included in your proposal. In addition, provide supporting information as to how your community's approach will enhance opportunities for individuals interested in pursuing a career in the manufacturing field. Please describe how the project will involve manufacturing partners in the planning and validation of the project.

List below the activities associated with your proposal for Manufacturing Partnerships Incentive grant funds. Please identify who would be responsible for these activities and what matching (in-kind or cash) resources your organization or other sources will provide to support the activities.

Activity	Name of person responsible	Title and work location of person responsible	Other resources to support the activity

Project Outcomes

(max. - 1 page)

Please provide a bullet-point list of the projected outcomes for the project. If funding is used as one part of a larger project, indicate how these funds contribute to the overall desired outcome for the larger project. Outcomes should be comprehensive for all schools included in your proposal.

Budget Narrative

(max. - 1 page)

Please describe how funds will be utilized for the project to support career pathways in manufacturing in your community. Indicate if funds from other sources would be leveraged or matched with these funds. Funds cannot be used for substitute teachers, adjunct instructors, or other general staff compensation not linked directly to manufacturing career pathway development.

Specific uses for grant funding may include but are not limited to:

- Development of career awareness information or programs for middle school students interested in the manufacturing career path
- Development of secondary manufacturing related programs
- Purchase of curriculum or equipment for a new or existing program
- Assistance in implementation of stackable training credentials or certifications (NIMS, AWA, others)
- Development of programs that assist individuals re-entering the workforce to include veterans interested in the manufacturing field
- Professional development

Budget Detail

(max. - 2 pages)

Please provide a detailed budget proposal for requested funds.

The budget detail submitted should be an aggregate of the proposed manufacturing program(s) improvements for the state funded educational organizations

(Recommended Format Example)

Community/Region Educational Organizations	Existing	Additional Planned	School Id.	Total Cost	Internal Cash Funding	Outside Cash Resources	Funds Requested from MPI
Middle School(s)	14	0					
Mfg. Related Programs / Courses (or needs)	5	2	4, 12				
PLTW	1	0					
CAD	1	0					
3D Printing (additive mfg.)	3	1	12	\$3,000	\$500	\$1,000	\$1,500
Mfg. Extra-curricular Programs	2	0					
Mfg. Curriculum Development	1	0					
Intra-District Competitions	2	0					
Mfg. Mentoring Program	2	0					
Teacher Professional Dev. In Mfg. Topics	0	0					
Mfg. Career Awareness / Curriculum	1	0					
Dedicated Training Equipment	1	0					
Shop / Classroom (Fume Extraction Hood)	1	1	4	\$8,500	\$1,000		\$7,500
Other	0	0					
STEM Programs	2	0					
Sub-Total				\$11,500	\$1,500	\$1,000	\$9,000

	Existing	Additional	School	Total Cost	Internal Cash	Outside Cash	Funds Requested
--	----------	------------	--------	------------	---------------	--------------	-----------------

Manufacturing Partnership Incentive RFP (continued)

		Planned	Id.		Funding	Resources	from MPI
High School(s)	7	0					
Mfg. Related Programs / Courses (or needs)	3	2	21				
PLTW	1	1	21	\$6,000		\$2,000	\$4,000
CAD	1	0					
3D Printing (additive mfg.)	3	0					
Mfg. Extra-curricular Programs	2	0					
Mfg. Curriculum Development	1	0					
Intra-District Competitions	2	0					
Mfg. Mentoring Program	2	0					
Internships	0	0					
Teacher Professional Dev. In Mfg. Topics	0	1	21	\$3,000	\$1,000		\$2,000
Mfg. Career Awareness / Curriculum	1	0					
Dedicated Training Equipment	1	0					
Shop / Classroom (Fume Extraction Hood)	1	0					
Other	0	0					
STEM Programs	1	0					
Sub-Total				\$9,000	\$1,000	\$2,000	\$6,000
	Existing	Additional Planned	School Id.	Total Cost	Internal Cash Funding	Outside Cash Resources	Funds Requested from MPI
Community College(s)	1	0					
Mfg. Related Programs / Courses (or needs)	5	2	B				
PLTW	0	0					
CAD	1	0					
3D Printing (additive mfg.)	1	0					
Mfg. Extra-curricular Programs	1	0					
Mfg. Related Curriculum Development	-	0					
Intra-District Competitions	1	0					
Mfg. Mentoring Program	2	0					
Internships	3	0					
Teacher Professional Dev. In Mfg. Topics	0	0					
Mfg. Career Awareness / Curriculum	0	0					
Dedicated Training Equipment (Dedicated file server)	-	1	B	\$8,500	\$2,500	\$1,000	\$5,000
Shop / Classroom	1	0					
Other	0	0					
STEM Programs	1	0					
Sub-Total				\$8,500	\$2,500	\$1,000	\$5,000

Manufacturing Partnership Incentive RFP (continued)

	Existing	Additional Planned	School Id.	Total Cost	Internal Cash Funding	Outside Cash Resources	Funds Requested from MPI
Universities	1	0					
Mfg. Related Programs / Courses (or needs)	5	0	A				
PLTW	0	0					
CAD	1	0					
3D Printing (additive mfg.)	1	0					
Mfg. Extra-curricular Programs	1	0					
Mfg. Related Curriculum Development	-	0					
Intra-District Competitions	1	0					
Mfg. Mentoring Program	1	0					
Internships	1	0					
Teacher Professional Dev. In Mfg. Topics	0	0					
Mfg. Career Awareness / Curriculum	0	0					
Dedicated Training Equipment	-	0					
Shop / Classroom	1	0					
Other	0	0					
STEM Programs	1	0					
Sub-Total							
Total		7		\$29,500	\$5,500	\$4,000	\$20,000
Percent of Funding					18.6%	13.6%	67.8%

Post Project Presentations / Report-Out

(3-5 slides) / (max. – 3 pages)

HB13-1165, Manufacturing Career Pathway, was sponsored and approved legislation in support of Colorado’s existing and new manufacturers and the challenge they face in maintaining a well-qualified talent pipeline. To that end, as a result of MPI grant funds awarded this fiscal year (FY2014), a presentation of your overall strategy for developing or enhancing a manufacturing career pathway in your community is required. Presentations can be organized through the regional sector partnerships for manufacturing, local or regional manufacturing alliances, associations, or groups. The intent is to provide a closed-loop communication that taxpayer funding and state legislation is carried out as intended, and that their feedback has resulted in positive change for developing the talent pipeline for manufacturing.

A report based on the presentation to your local or regional manufacturers will be required by no later than C.O.B. November 1, 2014. A final closeout report will be required by no later than C.O.B. May 1, 2015. Reports should be submitted in either hard copy or electronic version to: Ben Nesbitt, Program Director for Skilled Trades and Technical Sciences, 9101 East Lowry Blvd, Denver, CO 80230, Ben.Nesbitt@cccs.edu

Grant Submission

Only submissions representing collaboration among k-12, postsecondary and workforce partners will be accepted. If funding is approved and shared among multiple institutions, separate allocations can be requested for accountability purposes.

Signature Page

Please provide a signature page indicating the responsible parties, titles, and contact information for all recipients of grant funding.

All grant requests will be evaluated on:

- How the project provides a clear indication of collaboration in your community.
- How the project meets the knowledge and skill requirements identified within the one or multiple manufacturing career pathways related to identified, in-demand manufacturing occupations.
- How the project leads to development of industry partnerships.
- How the project leads to certifications or other options for individuals within the manufacturing career pathway.
- How the project will address a need that is currently inhibiting the development or delivery of pathway courses or programs.

All applicants will be notified regardless if funding is awarded. Please direct all questions to Ben Nesbitt at ben.nesbitt@cccs.edu or 303.595.1614

Best Regards,

Ben Nesbitt
Program Director for Skilled Trades and Technical Sciences,
Colorado Community College System
9101 East Lowry Blvd, Denver, CO 80230