

**First Regular Session  
Sixty-ninth General Assembly  
STATE OF COLORADO**

**PREAMENDED**

*This Unofficial Version Includes Committee  
Amendments Not Yet Adopted on Second Reading*

LLS NO. 13-0740.01 Brita Darling x2241

**HOUSE BILL 13-1165**

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**HOUSE SPONSORSHIP**

**Wilson,**

**SENATE SPONSORSHIP**

**(None),**

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**House Committees**

Education  
Appropriations

**Senate Committees**

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**A BILL FOR AN ACT**

101      **CONCERNING THE CREATION OF A MANUFACTURING CAREER PATHWAY**  
102              **FOR COLORADO, AND, IN CONNECTION THEREWITH, MAKING AN**  
103              **APPROPRIATION.**

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**Bill Summary**

*(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at <http://www.leg.state.co.us/billsummaries>.)*

The bill requires the state board for community colleges and occupational education (board), in conjunction with the department of labor and employment, the state work force development council, the department of higher education, and the department of education, to

Shading denotes HOUSE amendment. Double underlining denotes SENATE amendment.  
Capital letters indicate new material to be added to existing statute.  
Dashes through the words indicate deletions from existing statute.

design a manufacturing career pathway for the skills needed for employment in Colorado's manufacturing sector.

The manufacturing career pathway shall connect school districts, community colleges, and 4-year institutions of higher education with adult education programs and local workforce development programs and allow a student to earn income while progressing along the career pathway.

At a minimum, the manufacturing career pathway must include the following components:

- ! Alignment with the skills and requirements necessary for high-demand occupations within the manufacturing sector;
- ! A full range of education options with a nonduplicative and clearly articulated progression through the educational programs;
- ! Technical skills assessments that lead to industry certification or other hiring benefits;
- ! Academic and career counseling resources and services, particularly at transition points along the career pathway; and
- ! Curriculum and instructional strategies that integrate learning with work.

Once designed, the bill requires the department of higher education, in collaboration with the department of labor and employment, to post information concerning the manufacturing career pathway to the free, on-line resource known as College in Colorado.

For the 2013-14 fiscal year, the bill includes an appropriation of \$1,000,000 to the department of higher education, for allocation to the state board for community colleges and occupational education, for the implementation of the bill.

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1 *Be it enacted by the General Assembly of the State of Colorado:*

2 **SECTION 1.** In Colorado Revised Statutes, **add** part 9 to article  
3 60 of title 23 as follows:

4 PART 9

5 MANUFACTURING CAREER PATHWAY

6 **23-60-901. Legislative declaration.** (1) THE GENERAL ASSEMBLY  
7 HEREBY FINDS AND DECLARES THAT:

8 (a) MANUFACTURING PLAYS A VITAL ROLE IN COLORADO'S

1 ECONOMY;

2 (b) THE MANUFACTURING SECTOR IN COLORADO IS DIVERSE, WITH  
3 EMPLOYERS DISTRIBUTED ACROSS THE STATE;

4 (c) OVER FIVE THOUSAND NINE HUNDRED MANUFACTURING FIRMS  
5 EMPLOY MORE THAN ONE HUNDRED TWENTY THOUSAND EMPLOYEES AND  
6 CONTRIBUTE OVER SIXTEEN BILLION DOLLARS ANNUALLY TO COLORADO'S  
7 ECONOMY; AND

8 (d) BOTH DURABLE AND CONSUMABLE GOODS ARE  
9 MANUFACTURED IN COLORADO, INCLUDING PRODUCTS SUCH AS MEDICAL  
10 INSTRUMENTS, SEMICONDUCTORS AND OTHER INFORMATION TECHNOLOGY  
11 PRODUCTS, PLASTICS, AVIATION EQUIPMENT COMPONENTS, CHEMICALS,  
12 AND FOOD PRODUCTS REQUIRING SPECIALIZED PROCESSES.

13 (2) THE GENERAL ASSEMBLY FURTHER FINDS THAT:

14 (a) THE PROMISE AND CHALLENGE OF SUSTAINING GROWTH IN  
15 COLORADO'S MANUFACTURING SECTOR PRESENTS SPECIAL DIFFICULTIES  
16 DUE TO THE SCOPE AND DIVERSITY OF THE INDUSTRY;

17 (b) MANUFACTURING SECTOR EMPLOYERS HAVE INCREASED  
18 RELIANCE ON AUTOMATED AND COMPUTER-INTEGRATED CONTROL  
19 PROCESSES AND "LEAN" MANUFACTURING PRINCIPLES;

20 (c) WORKERS IN THIS EMPLOYMENT ENVIRONMENT NEED  
21 FOUNDATIONAL KNOWLEDGE, SPECIALIZED SKILLS, PORTABLE  
22 PRODUCTION SKILLS, AS WELL AS FLEXIBILITY AND ADAPTABILITY IN WORK  
23 HABITS;

24 (d) THIS HAS RESULTED IN A SHORTFALL IN THE QUANTITY AND  
25 QUALITY OF THE POOL OF WORKERS WHO CAN SUCCEED IN THE  
26 MANUFACTURING SECTOR; AND

27 (e) BECAUSE MANUFACTURING IN COLORADO IS A DYNAMIC AND

1 EVOLVING ECONOMIC ENGINE FOR THE STATE, THE CHALLENGES IN  
2 PREPARING A PIPELINE OF SKILLED EMPLOYEES TO WORK IN THE  
3 MANUFACTURING SECTOR MUST BE ADDRESSED, AND CURRENT AND  
4 FUTURE COLORADO WORKERS MUST BE AWARE OF THE OPPORTUNITIES IN  
5 THE INDUSTRY AND THE CAREER PATHWAY TO ACHIEVE EMPLOYMENT IN  
6 THE MANUFACTURING SECTOR.

7 (3) THEREFORE, THE GENERAL ASSEMBLY FINDS AND DECLARES  
8 THAT DEVELOPING A MANUFACTURING CAREER PATHWAY FOR COLORADO  
9 CITIZENS WILL:

10 (a) INCREASE THE NUMBER OF COLORADO CITIZENS ACCESSING  
11 POSTSECONDARY EDUCATION;

12 (b) INCREASE THE NUMBER OF COLORADO CITIZENS COMPLETING  
13 DEGREES AND OTHER CREDENTIALS;

14 (c) DECREASE THE NEED FOR REMEDIATION AT THE  
15 POSTSECONDARY LEVEL;

16 (d) INCREASE ENTRY INTO EMPLOYMENT AND INCREASE WAGES  
17 OVER TIME; AND

18 (e) CREATE BETTER TRANSITIONS IN EDUCATIONAL PROGRAMS FOR  
19 STUDENTS IN THE MANUFACTURING CAREER PATHWAY FROM HIGH SCHOOL  
20 TO COLLEGE, FROM ADULT EDUCATION TO POSTSECONDARY CREDIT, AND  
21 FROM COMMUNITY COLLEGES TO FOUR-YEAR INSTITUTIONS OF HIGHER  
22 EDUCATION OR INTO EMPLOYMENT.

23 **23-60-902. Definitions.** AS USED IN THIS PART 9, UNLESS THE  
24 CONTEXT OTHERWISE REQUIRES:

25 (1) "BOARD" MEANS THE STATE BOARD FOR COMMUNITY  
26 COLLEGES AND OCCUPATIONAL EDUCATION CREATED IN SECTION  
27 23-60-104.

1           (2) "CAREER PATHWAY" MEANS A SERIES OF CONNECTED  
2 EDUCATION AND TRAINING STRATEGIES AND SUPPORT SERVICES THAT  
3 ENABLE INDIVIDUALS TO SECURE INDUSTRY-RELEVANT SKILLS AND  
4 CERTIFICATION WHERE APPLICABLE, AND TO OBTAIN EMPLOYMENT WITHIN  
5 AN OCCUPATIONAL AREA AND TO ADVANCE TO HIGHER LEVELS OF FUTURE  
6 EDUCATION AND EMPLOYMENT.

7           (3) "MANUFACTURING SECTOR" MEANS ESTABLISHMENTS,  
8 INCLUDING EXISTING AND EMERGING MANUFACTURING SECTOR  
9 PARTNERSHIPS, ENGAGED IN THE MECHANICAL, PHYSICAL, OR CHEMICAL  
10 TRANSFORMATION OF MATERIALS, SUBSTANCES, OR COMPONENTS INTO  
11 NEW PRODUCTS. "MANUFACTURING SECTOR" INCLUDES THE EMPLOYEES  
12 WHO PLAN, MANAGE, AND PERFORM THE PROCESSING OF MATERIALS INTO  
13 INTERMEDIATE OR FINAL PRODUCTS AND RELATED PROFESSIONALS AND  
14 TECHNICAL SUPPORT ACTIVITIES, INCLUDING PRODUCTION PLANNING AND  
15 CONTROL, MAINTENANCE, AND MANUFACTURING PROCESS ENGINEERING.

16           (4) "MANUFACTURING SECTOR PARTNERSHIP" MEANS A  
17 COLLABORATION OF BUSINESS AND INDUSTRY, IN PARTNERSHIP WITH  
18 PUBLIC WORKFORCE DEVELOPMENT, ECONOMIC DEVELOPMENT, AND  
19 EDUCATION PARTNERS, TO ENSURE THAT WORKERS ARE PREPARED TO  
20 MEET THE GROWING DEMANDS OF THE MANUFACTURING INDUSTRY SECTOR  
21 WITHIN A GEOGRAPHIC AREA.

22           (5) "STACKABLE CERTIFICATES" MEANS A SEQUENCE OF  
23 CREDENTIALS, EACH OF WHICH IS RECOGNIZED BY EMPLOYERS AND,  
24 THROUGH PROVIDES A GATEWAY TO EMPLOYMENT AND MATRICULATION  
25 INTO A TECHNICAL DEGREE OR ADVANCED STUDY IN A FIELD.

26           **23-60-903. Manufacturing career pathway - design.** (1) No  
27 LATER THAN THE 2014-15 ACADEMIC YEAR, THE BOARD, AFTER

1 CONSULTING WITH LOCAL DISTRICT JUNIOR COLLEGES AND AREA  
2 VOCATIONAL SCHOOLS, IN COLLABORATION WITH THE DEPARTMENT OF  
3 LABOR AND EMPLOYMENT, THE DEPARTMENT OF HIGHER EDUCATION, THE  
4 DEPARTMENT OF EDUCATION, AND THE STATE WORK FORCE DEVELOPMENT  
5 COUNCIL, CREATED IN SECTION 24-46.3-101, C.R.S., SHALL DESIGN A  
6 CAREER PATHWAY FOR STUDENTS WITHIN THE MANUFACTURING SECTOR.  
7 THE MANUFACTURING CAREER PATHWAY SHALL CONNECT SCHOOL  
8 DISTRICTS, LOCAL DISTRICT JUNIOR COLLEGES, AREA VOCATIONAL  
9 SCHOOLS, COMMUNITY COLLEGES, AND FOUR-YEAR INSTITUTIONS OF  
10 HIGHER EDUCATION WITH ADULT EDUCATION PROGRAMS, LOCAL  
11 WORKFORCE DEVELOPMENT PROGRAMS, AND REGIONAL MANUFACTURING  
12 SECTOR PARTNERSHIPS, AND WILL ALLOW A STUDENT TO EARN INCOME  
13 WHILE PROGRESSING ALONG THE CAREER PATHWAY.

14 (2) THE MANUFACTURING CAREER PATHWAY MUST INCLUDE  
15 INDUSTRY-VALIDATED STACKABLE CERTIFICATIONS AND MULTIPLE ENTRY  
16 AND EXIT POINTS THAT ALLOW STUDENTS OF ALL AGES TO SEEK  
17 ADDITIONAL OPPORTUNITIES IN THE MANUFACTURING SECTOR. THE  
18 MANUFACTURING CAREER PATHWAY DESIGNED BY THE BOARD MUST  
19 INCLUDE, BUT NEED NOT BE LIMITED TO, THE FOLLOWING COMPONENTS:

20 (a) ALIGNMENT WITH THE SKILLS AND REQUIREMENTS THAT STATE  
21 AND LOCAL MANUFACTURING SECTOR EMPLOYERS, THROUGH  
22 MANUFACTURING SECTOR PARTNERSHIPS, DETERMINE ARE NECESSARY FOR  
23 CAREER PROGRESSION IN HIGH-DEMAND OCCUPATIONS WITHIN THE  
24 MANUFACTURING SECTOR;

25 (b) A FULL RANGE OF MIDDLE SCHOOL, SECONDARY, ADULT  
26 EDUCATION, AND POSTSECONDARY EDUCATION OPTIONS, WITH A  
27 NONDUPLICATIVE, CLEARLY ARTICULATED COURSE PROGRESSION FROM

1 ONE LEVEL OF INSTRUCTION TO THE NEXT, WITH OPPORTUNITIES TO EARN  
2 POSTSECONDARY CREDITS, MAXIMIZE CREDIT FOR PRIOR LEARNING, AND  
3 SECURE INDUSTRY-VALIDATED CREDENTIALS;

4 (c) TECHNICAL SKILL ASSESSMENTS AT MULTIPLE POINTS IN THE  
5 MANUFACTURING CAREER PATHWAY THAT LEAD TO INDUSTRY  
6 CERTIFICATIONS OR OTHER VALUE IN EMPLOYMENT, INCLUDING ADVANCED  
7 PLACEMENT INTO A HIGHER LEVEL OF TRAINING;

8 (d) ACADEMIC AND CAREER COUNSELING RESOURCES, BEST  
9 PRACTICES IN WRAP-AROUND SUPPORT SERVICES, PARTICULARLY AT  
10 TRANSITION POINTS ALONG THE MANUFACTURING CAREER PATHWAY, AND  
11 SUPPORT AND DEVELOPMENT OF INDIVIDUAL CAREER AND ACADEMIC  
12 PLANS; AND

13 (e) CURRICULUM AND INSTRUCTIONAL STRATEGIES THAT ARE  
14 APPROPRIATE FOR ADULT STUDENTS AND THAT EMBED LEARNING AND  
15 SKILL BUILDING IN A WORK-RELATED CONTEXT.

16 **23-60-904. On-line information - manufacturing career**  
17 **pathway.** (1) AFTER THE DESIGN OF THE MANUFACTURING CAREER  
18 PATHWAY IS COMPLETED PURSUANT TO SECTION 23-60-903, THE  
19 DEPARTMENT OF HIGHER EDUCATION, IN COLLABORATION WITH THE  
20 DEPARTMENT OF LABOR AND EMPLOYMENT, SHALL POST INFORMATION  
21 CONCERNING THE CAREER PATHWAY ON THE STATE-PROVIDED, FREE  
22 ON-LINE RESOURCE COMMONLY REFERRED TO AS  
23 "COLLEGEINCOLORADO.ORG". **THE FOLLOWING INFORMATION MUST BE**  
24 **INCLUDED:**

25 (a) MANUFACTURING SECTOR CAREER AWARENESS;

26 (b) SALARY AND WAGE INFORMATION FOR MANUFACTURING  
27 SECTOR CAREERS;

- 1 (c) THE MANUFACTURING SECTOR EMPLOYMENT FORECAST;
- 2 (d) INFORMATION ON PROGRAMS WITHIN THE MANUFACTURING
- 3 CAREER PATHWAY, SERVICES PROVIDED, AND FINANCIAL AID
- 4 OPPORTUNITIES FOR STUDENTS; AND
- 5 (e) ON-LINE STUDENT SUPPORT SERVICES.

6 **SECTION 2. Appropriation.** (1) In addition to any other  
7 appropriation, there is hereby appropriated, out of any moneys in the  
8 general fund not otherwise appropriated, to the department of higher  
9 education, for the fiscal year beginning July 1, 2013, the sum of \$559,165,  
10 or so much thereof as may be necessary, to be allocated for the  
11 implementation of this act as follows:

12 (a) \$84,565 for Colorado commission on higher education financial  
13 aid for need based grants; and

14 (b) \$474,600 for the college opportunity fund program for  
15 fee-for-service contracts with state institutions.

16 (2) In addition to any other appropriation, there is hereby  
17 appropriated to the department of higher education, for the fiscal year  
18 beginning July 1, 2013, the sum of \$474,600 and 1.5 FTE, or so much  
19 thereof as may be necessary, for allocation to the state board for  
20 community colleges and occupational education state system community  
21 colleges for expenditures related to the implementation of this act. Said  
22 sum is from reappropriated funds received from the appropriation made  
23 in paragraph (b) of subsection (1) of this section.

24 **SECTION 3. Act subject to petition - effective date.** This act  
25 takes effect at 12:01 a.m. on the day following the expiration of the  
26 ninety-day period after final adjournment of the general assembly (August  
27 7, 2013, if adjournment sine die is on May 8, 2013); except that, if a



1 referendum petition is filed pursuant to section 1 (3) of article V of the  
2 state constitution against this act or an item, section, or part of this act  
3 within such period, then the act, item, section, or part will not take effect  
4 unless approved by the people at the general election to be held in  
5 November 2014 and, in such case, will take effect on the date of the  
6 official declaration of the vote thereon by the governor.