#### STATE BOARD OF EDUCATION SPECIAL MEETING March 5, 2015 Office of the State Board of Education Len B. Jordan Building 650 W State Street, 3<sup>rd</sup> Floor Boise, Idaho



**Teleconference Number:** (888)431-3632 **Public Participation Code:** 896861

Thursday, March 5, 2015, 10:00 a.m., Mountain Time

## PLANNING, POLICY AND GOVERNMENTAL AFFAIRS

1. Legislative Update

## INSTRUCTION, RESEARCH AND STUDENT AFFAIRS

2. Eastern Idaho Technical College – AAS Degree and Intermediate Technical Certificate – Machine Tool Technology

#### SUBJECT

Legislative Update

#### REFERENCE

February 18, 2014

The Board received a legislative update and took action to support one bill (HB110).

#### BACKGROUND/DISCUSSION

This item is to provide the Board with an update on Board approved legislation and other education related bills thus far in the 2015 legislative session.

The attached summary provides a brief outline of where each bill currently stands in the legislative process and any new education related education introduced since the last legislative update to the Board. The new bills since the last update are highlighted in blue.

#### IMPACT

Board action, either supporting or opposing individual bills would allow for Board staff to testify to the Boards position during the hearings on the bills during the legislative committee meetings.

#### ATTACHMENTS

Attachment 1 – Summary of Education Related Legislation Page 3

#### STAFF COMMENTS AND RECOMMENDATIONS

Board staff will be prepared to walk the Board through specific legislation that the Board may wish to opine on as well as answer questions regarding the impact that a given piece of legislation may have on the state educational system.

The Board has the option of supporting, opposing or taking no action on any of the bills discussed. Board staff will be available to walk through the bills and answer specific questions and give recommendations on the bills discussed.

Under Board Action is suggested language Board members may wish to use, should they want to take action on any given bill.

#### **BOARD ACTION**

This item is for informational purposes only. Any action will be at the Board's discretion.

I move the State Board of Education oppose \_\_\_\_\_\_. (insert bill number)

OR

I move the State Board of Education support \_\_\_\_\_. (insert bill number)

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# **Board Approved Legislation**

Bill No		Last Action
<u>H0020</u>	Transfer of Surplus Property: Clarifies the conflict between the	02/02/205 House- Passed 64-5-1 02/12/2015 Senate – Passed 33-0-1
<u>H0021</u>	<b>.</b> .	
<u>H0022</u>		02/02/2015 House – Passed 68-1-1 02/10/2015 Senate – Passed 33-0-2
<u>H0045/</u> H0199	Income Tax Credit – Sunset Removal: Removes the sunset on tax credits to educational institutions and agencies	01/28/2015 House - Reported Printed and Referred to Revenue & Taxation (H0045) 02/27/2015 House - Reported Printed and Referred to Revenue & Taxation (H0199)
<u>H0074/</u> HB122	Continuous Improvement Plans: Updates the language around district strategic plans to focus them more toward continuous improvement plans and increases the amount of funds available for training from \$2,000 to \$6,600.	02/20/2015 House - Passed: 41-24-5 03/03/2015 Senate – Reported out of committee with do pass recommendation, filed for second reading
<u>S1021</u>	Charter School Financial Support: Separates the state appropriate from the automatic calculation of the Charter School Authorizer fee for the schools Authorized by the Public Charter School Commission and amends reporting date requirement	02/09/2015 Senate – Passed 33-2-0 02/17/2015 House – Passed 68-0-2
<u>S1050</u>	Advanced Opportunities: Amends the Advanced Opportunities programs contained in code to consolidate	02/24/2015 Senate - Passed - 30-4-0 03/03/2015 House – Reported out of committee with a do pass recommendation; filed for second reading

	them into one chapter and other various small program changes	
RS23268	Risk Management – Opt Out: Allows the Institutions to opt out of Risk Management services, including the purchase of their own liability insurance with Board approval.	Has not been scheduled for a print hearing.
RS23314	Career Ladder Legislation: Implements the recommendations of the Task Force moving teacher apportionment to a Career Ladder model.	Has not been scheduled for a print hearing.

# **Board Supported Legislation**

Bill No	Description	Last Action
<u>H0110</u>	facilitate the development of an	02/20/2015 House - Passed: 65-0-5 02/26/2015 Senate - Read second time; filed for Third Reading
<u>S1081</u>		02/20/2015 Senate - Passed: 31-0-3 03/03/2015 House - U.C. to hold place on third reading calendar one legislative day
<u>S1086</u>	allows PIE to provide incentives	03/02/2015 Senate - Passed: 34-0-0 03/02/2015 House – Read first time, referred to Education

# Superintendent Introduced Legislation

Bill No	Description	Last Action
<u>H0097</u>	Education Services for the Deaf and Blind for the Board of Directors: Allows the Superintendent to appoint a designee in their place to serve as the chair of the Board of Directors.	02/10/2015 House - Reported Printed and Referred to Education
<u>S1018</u>	Teacher Certification Fees and the Professional Standards Commission: Allows the Department to move the fee revenue into a line item within the Departments budget and removes the statutory percentages that could be used by the Department to defray the cost of teacher certification administration	02/06/2015 Senate – Passed: 34-0-1 02/23/2015 House – Passed: 68-1-1
<u>S1019</u>	<b>-</b>	02/06/2015 Senate – Passed 32-2-1 03/02/2015 House – Held in Committee
<u>H0190</u>	applicable fees charged by ISP,	02/26/2015 House - Reported out of committee with a do pass recommendation, filed for Second Reading

# Other Education Related Legislation

Bill No	Description	Last Action
<u>H0047</u>	waterways including to provide	02/06/2015 House – Passed: 48-18-4 02/09/2015 Senate - Introduced, read first time; referred to: Resources & Environment

	the Public School Permanent	
	Endowment Fund.	
<u>H0052</u>	Youth challenge prog/repeal sunset: Repeals the sunset on this National Guard youth intervention program	02/13/2015 House – Passed: 46-17-7 02/25/2015 Senate – Passed: 34-0-0
<u>H0065</u>	Education, superintendent duties: Requires the State Superintendent start the process of withdrawing from the SBAC	02/02/2015 House - Reported Printed and Referred to Ways & Means
<u>H0076</u>	Taxes, base assessment roll: amends existing law to provide for funds for the school emergency fund levy to be included on the base assessment roll	02/13/2015 House - Passed: 66-1-3 03/02/2015 Senate - Passed: 34-0-0
<u>H0083</u>	5	02/05/2015 House - Reported Printed and Referred to Education
<u>H0126</u>	Allows school districts to receive salary-based apportionment based on the better of their midterm or full-term support unit	03/02/2015 House - Passed: 51-19-0 03/03/2015 Senate – Introduced, read first time; referred to Education
<u>H0169</u>	To provide for a one year duration of all agreements with regard to salaries, benefits, and any items with a direct or indirect cost to the school district's budget, and to allow for a two year duration of all agreements with regard to other items	03/03/2015 House – Passed: 69-1-0

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	between a public school district or pubic charter school and the professional personnel of the district, consistent with the timing of and duration of the fiscal year of the school.	
	Adds to existing law to provide for pay for success contracting.	02/26/2015 House - Passed: 58-9-3 02/27/2015 Senate - Introduced, read first time; referred to: Education
<u>H0178</u>	Amends existing law to revise the maximum amount of educational debt repayments for rural physicians and to provide that the review board shall make a certain consideration before granting awards.	03/03/2015 House – Held on third reading calendar one legislative day
	Amends and adds to existing law to apply a section to an additional group of individuals, to revise penalty provisions; and to provide requirements for harassment, intimidation and bullying information and professional development.	02/26/2015 House - Reported Printed and Referred to Education
<u>S1064</u>	Amends existing law to revise requirements for licensure as a registered cosmetologist.	02/12/2015 Senate - Reported Printed; referred to Commerce & Human Resources
<u>S1070</u>	Requires High School students be allowed to take alternate route to graduation rather than a standards achievement test with parent/guardian approval	03/02/2015 Senate - Referred to 14th Order for amendment
<u>S1071</u>	Requires students pass US citizenship civics test for high school graduation, sets level to pass	02/26/2015 Senate - Reported out of committee; to 14th Order for amendment
<u>S1072</u>	Requires candidates for school board trustee position file sunshine reports like other non- partisan positions	03/03/2015 Senate – Reported out of committee with do pass recommendation; filed for second reading
<u>S1085</u>	Requires state superintendent to start process to remove Idaho from Smarter Balanced Assessment Consortium,	02/16/2015 Senate - Reported Printed; referred to Education

Ir	1	1
	prohibits students from taking any test or test question develop by such consortium as a graduation requirement	
<u>S1087</u>	Amends existing law to provide admission preference to students transferring from a charter school to a different charter school	03/02/2015 Senate - Passed: 27-7-0 03/03/2015 House – Read first time, referred to Education
<u>S1088</u>	Defines when a reduction in force may occur and removes sunset clause from previous session	03/03/2015 Senate – Passed: 33-0-1
<u>S1096</u>	Creates a new chapter outline parental rights in education. Requires school districts to develop polices to promote parental involvement and requires annual parent notification of such rights.	02/17/2015 Senate - Reported Printed; referred to Education
<u>S1097</u>	Repeals §33-1006A which requires the Department of Education to conduct audits of transportation operations under certain conditions.	03/03/2015 Senate – Passed: 33-0-1
HCR003	Education, data system study: Creates a Legislative Council to study the state's K-20 SLDS	02/05/2015 House – Adopted: 63-4-3 03/03/2015 Senate – Adopted: 32-0-2
<u>SCR105</u>	This resolution directs the Department of Education and Board to convert the current Idaho Core Standards into more Idaho-specific standards in 2015.	03/02/2015 Senate – Held in Education Committee
<u>SCR106</u>	This resolution directs the Department of Education to find an alternative to the "Smarter Balance Assessment Consortium" and report to the legislature in 2016 the feasibility of using a replacement and further resolves that assessments for evaluation or accountability purposed should be chosen at the local level.	02/17/2015 Senate – Adopted: 33-1-0 02/27/2015 House - Read First Time, Referred to Education

a 2 tiered career ladder model	03/04/2015 House – RS presented for introduction 03/03/2015 Senate - Draft legislation presented to Education Committee for discussion
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# Supplemental Appropriations

Bill No	Description	Last Action
<u>H0168</u>	Approp. add'l \$3,640,500 for FY 2015 to the Sup. of Public Instruction to pay for broadband at public schools; providing legislative intent for use of the funds; providing legislative intent regarding the law governing procurement for school districts; providing legislative intent for reporting requirements; and reducing the appropriation to the Dep. of Admin. for FY 2015 by \$5,052,000 for the Idaho Education Network.	02/19/2015 House –Passed: 68-1-11 02/23/2015 Senate –Passed: 33-0-1
<u>S1002</u>	Approp, Public Television, add'l: Provides a one-time supplemental appropriation to IPTV for FY15 for the replacement of equipment.	01/28/2015 Senate – Passed: 33-1-1 02/02/2015 – House – Passed: 53-15-2
<u>S1012</u>		01/30/2015 Senate – Passed: 32-0-3 02/04/2015 House – Passed: 60-10-0
<u>S1116</u>	ITO THE PUBLIC SCHOOLS	03/03/2015 Senate - Introduced; read first time; referred to JR for Printing

# May Impact Institutions/Education

Bill No	Description	Last Action
<u>S1039</u>		02/05/2015 Senate - Reported Printed; referred to Transportation

#### EASTERN IDAHO TECHNICAL COLLEGE

#### SUBJECT

Approval of AAS Degree and Intermediate Technical Certificate in Machine Tool Technology

#### APPLICABLE STATUTE, RULE, OR POLICY

Idaho State Board of Education Governing Policies & Procedures, Section III.G. Postsecondary Program Approval and Discontinuance

#### **BACKGROUND/DISCUSSION**

Eastern Idaho Technical College (EITC) proposes to create a new program to address the increased need for entry-level technicians in the growing advanced manufacturing industry in eastern Idaho. This program will offer a one year Intermediate Technical Certificate and a two-year Associate of Applied Science degree (AAS).

Graduates will be able to perform machining functions and possess the fundamental skills and knowledge in computer numerically controlled machine tools, lathes, mills, and precision measuring tools. The AAS degree will expand a student's skills to include computer-aided manufacturing, dimensioning, and tolerancing.

A key focus of the Idaho Workforce Development Council is the development of new advanced manufacturing and machine tool technology programs due to the expanding workforce in this area and the number of unfilled jobs. Students completing these programs typically enter employment at a high rate of pay. The program is scheduled to begin in Fall 2015 and will enroll 15 students in the first year. A maximum of 30 students will be enrolled as students work towards the Intermediate Technical Certificate and the AAS Degree.

This program was funded through a line-item request from professional-technical colleges throughout Idaho in response to current and projected needs for advanced manufacturing skills.

#### IMPACT

Approval of the proposed program will allow EITC to hire faculty, purchase equipment, and market the program for implementation in Fall 2015. The proposed program will require \$300,800 (\$150,000 one-time funds and \$150,800 ongoing funds) to support the first year of the program and \$150,800 for subsequent years.

#### ATTACHMENTS

Attachment 1 – Machine Tool Technology Program Proposal Page 3

#### STAFF COMMENTS AND RECOMMENDATIONS

ETIC's proposed Machine Tool Technology program has gone through the review process and due to the fiscal impact consistent with Board Policy III.G, staff determined it would require Board approval. While the program is slated to begin in Fall 2015, EITC has time sensitive implementation timelines and therefore needs consideration of their proposal to occur at this time in order to meet those timelines. The first of these is their catalog deadline of March 18, 2015, which will allow EITC to market the program and recruit students.

The proposed program will address the increased need for entry-level technicians in the growing advanced manufacturing industry in eastern Idaho. The Division of Professional-Technical Education has reviewed the request and recommends Board approval.

#### **BOARD ACTION**

I move to approve the request by Eastern Idaho Technical College to create a new professional technical program in Machine Tool Technology.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_



Real skills, Real careers, Real world,

February 5, 2015

TO:	Mike Rush Executive Director
	State Board of Education
FROM	Dwight A. Johnson

FROM Dwight A. Johnson Administrator

SUBJECT: Program Proposal

In accordance with State Board policy, the enclosed Program Proposal is forwarded for approval by the State Board for Professional-Technical Education.

Eastern Idaho Technical College has requested to add a new Machine Tool Technology program. This program is slated to begin in the Fall of 2015. Students will be able to earn an Intermediate Technical Certificate and/or an AAS Degree upon completion of course requirements. This program will strengthen interaction between secondary and postsecondary educational institutions and meet employer needs for entry-level technicians in the growing manufacturing industry.

The Division has reviewed the request and recommends State Board approval. Please notify the Division office of State Board action when completed.

If you have any questions regarding the enclosed request, please let me know. Thank you.

DJ/sj/ds

Enclosure

MARCH 5, 2015 Utional Tracking No.

# **Idaho State Board of Education**

Proposal for Other Academic Program Activity and Professional-Technical Education

Date of Proposal Submission:	12/10/14		1
Institution Submitting Proposal:	Eastern Idaho Te	echnical College	
Name of College, School, or Division:	Trades and Industry Division		
Name of Department(s) or Area(s):	Trades and Indu	stry	r T
Program Identification for Proposed	New, Modified, or	Discontinued Program:	
Title:	Machine Tool Te		
Degree:	AAS and TO In	termediate Technical Ce	vitificate
Method of Delivery:		ratory/Supervised Work Experience	
CIP code (consult IR /Registrar)	48.0510		
Proposed Starting Date:	Fall Semester 20	)15	
Indicate if the program is:	X Regional Res	sponsibility Statewide R	esponsibility
New Instructional/Research Unit Contract Program/Collaborative		Expansion of an Existing Program     Other	
Sharen Jadum	12/19/14		
College Dean (Institution)	Date	Vice President for Research (as applicable)	
		No. And P.	Date
		Mul Althism	Date
Graduate Dean <b>(as applicable)</b>	Date	State Administrator, SDPTE	Date 2/3/16 Date
Graduate Dean (as applicable)	Date	State Administrator, SDPTE (as applicable)	2/3/18
Chief Fiscal Officer (Institution)	, ,	State Administrator, SDPTE (as applicable) Academic Affairs Program Manager	2/3/18
Chit Here	12/19/14	(as applicable) Academic Affairs Program Manager	2/3/16 Date
Chit Sur	/2/19/14 Date 12/19/14 Date	(as applicable) /	2/3/16 Date
Chief Fiscal Officer (Institution)	12/19/14 Date 12/19/14	(as applicable) Academic Affairs Program Manager	2/3/16 Date Date

Before completing this form, refer to Board Policy Section III.G., Program Approval and Discontinuance. This proposal form must be completed for the creation of each new program and each program discontinuation. <u>All guestions must be answered.</u>

1. Describe the nature of the request. Will this program/option be related or tied to other programs on campus? Please identify any existing program, option that this program will replace. If this is request to discontinue an existing program, provide the rationale for the discontinuance. Indicate the year and semester in which the last cohort of students was admitted and the final term the college will offer the program. Describe the teach-out plans for continuing students.

The Machine Tool Technology Program will be housed within Eastern Idaho Technical College's (EITC) Trades & Industry Division and be tied closely to its existing Welding Technology program. One FTE instructor will be employed beginning in Spring 2015 to design program curriculum, strengthen and formalize existing partnerships with area high schools who deliver professional-technical education programs, universities, and the Region 6 manufacturing sector.

After the program has been fully vetted with the above-mentioned entities, formal classroom and laboratory instruction will begin in the Fall 2015 semester. The College will enroll 15 students in the first year of the program.

2. List the objectives of the program. The objectives should address specific needs (industry) the program will meet. They should also identify the expected student learning outcomes and achievements. *This question is not applicable to requests for discontinuance.* 

This program will strengthen interaction between secondary and postsecondary educational institutions and meet employer needs for entry-level technicians in the growing manufacturing industry. Graduates of this program will possess the fundamental skills and knowledge for employment in the wide ranging and diverse sector of advanced manufacturing employers seeking employees with skills in computer numerically controlled (CNC) machine tools, lathes, mills, precision measuring tools, related attachments and accessories.

Students who successfully complete this program will also be able to perform machining functions such as cutting, drilling, shaping, and finishing products and component parts. Instruction will include CNC terminology, setup, programming, operations and troubleshooting, blueprint reading, machining, lathe and mill operations, technical mathematics, computer literacy, and CAD/CAM systems. <u>The technical certificate will result in entry level skills and blueprint reading. The AAS degree will expand on skills and instruduce computer aided manufacturing and dimensioning and Tolerancing.</u>

A primary objective of this program will be to reduce duplication between high school and two-year colleges of applied technology, eliminate gaps and overlaps in instruction, and enable students to shorten the time it takes to enter the workforce.

**3.** Briefly describe how the institution will ensure the quality of the program (i.e., program review). Will the program require specialized accreditation (it is not necessary to address regional accreditation)? If so, please identify the agency and explain why you do or do not plan to seek accreditation. *This question is not applicable to requests for discontinuance.* 

EITC is accredited by the Northwest Commission on Colleges and Universities. All entry-level training programs are reviewed annually by advisory committees composed of subject matter experts from within the industry. The advisory committee will assist the College and its faculty in ensuring that curriculum is up-to-date, make recommendations for the purchase of appropriate training equipment, address future industry training needs, provide supervised work experience opportunities for students, and employee graduates. EITC will also work with the National Institute

of Metallurgy Skills Accreditation (NIMS

4. List new courses that will be added to curriculum specific for this program. Indicate number, title, and credit hour value for each course. Please include course descriptions for new and/or changes to courses. Attach a Scope and Sequence, SDPTE Form Attachment B, for professional-technical education requests. This question is not applicable to requests for discontinuance.

Please see attached.

5. Please provide the program completion requirements and attach to this proposal as Appendix **A.** This question is not applicable to requests for discontinuance.

Credit hours required in major:	<u>52</u>
Credit hours required in minor:	
Credit hours in institutional general education or core curriculum:	16
Credit hours in required electives:	
Total credit hours required for completion:	68

6. Identify similar programs offered within Idaho or in the region by other colleges/universities. If the proposed request is similar to another state program, provide a rationale for the duplication. Institutions do not need to complete this section for PTE programs. This question is not applicable to requests for discontinuance.

Degrees/Certificates offered by school/college or program(s) within disciplinary area under review

Institution and Degree name	Level	Specializations within the discipline (to reflect a national perspective)	Specializations offered within the degree at the institution
BSU	Minor	Industrial Engineering	
CSI	TC & AAS	Manufacturing technology	
CWI	TC & AAS	Machine Tool Technology	
EITC	TC & AAS	Machine Tool Technology	
ISU	TC & AAS	Machining Technology	
LCSC	TC & AAS	Automated Manufacturing Technology	
NIC	TC & AAS	Machining & CNC Technology	
บเ	BS	Industrial Technology	

7. Describe the methodology for determining enrollment projections. If a survey of student interest was conducted, attach a copy of the survey instrument with a summary of results as Appendix B. This question is not applicable to requests for discontinuance.

Enrollment projections are based on the continuing waiting list in the College's Welding Technology Program and from input from the local and regional manufacturing industry. EITC has met with the majority of large-scale manufacturers in eastern Idaho with the majority reporting they have unfilled jobs in Machine tool Technology. In addition, the development of new advanced manufacturing and machine tool technology associate of applied science degree programs is a key focus of the Idaho Workforce Development Council. The Council's Draft Minutes from its March 6, 2014 meeting reference Advanced Manufacturing Task Force (Transmittal #7) in which Idaho Department of Labor Director Ken Edmunds proposed the creation of a task force to focus on the Advanced Manufacturing industry sector. The purpose of the task force would be to align the efforts of the council, Idaho Department of Labor business outreach specialists and Idaho's educational institutions with the needs of manufacturing employers in Idaho. During the research for the viability of the program, an advisory committee was formed from manufactures in the local region. They all expressed interest in this program due to their intentions of expanding their workforce.

8. Enrollment and Graduates. Provide a realistic estimate of enrollment at the time of program implementation and over three year period based on availability of students meeting the criteria referenced above. Include part-time and full-time (i.e., number of majors or other relevant data) by institution for the proposed program, last three years beginning with the current year and the previous two years. Also, indicate the number of graduates and graduation rates.

EITC projects the enrollment of 16 full-time students in year one of the Machine Tool Technology Program beginning August 2015. The College anticipates that the majority of first year graduates will enter the second year of the program in fall 2016. EITC has had a historically high placement rate of graduates in similar programs such as Welding Technology. In addition to the enrollment of full-time certificate and degree seeking students, the College's Workforce Training Program will promote customized training opportunities in blueprint reading, machine shop mathematics, CNC machine operation and other courses designed to upgrade the occupational skills of incumbent workers.

**Discontinuations.** Using the chart below include part-time and full-time (i.e., number of majors or other relevant data) by institution for the proposed discontinuation, last three years beginning with the current year and previous two years. Indicate how many students are currently enrolled in the program for the previous two years to include number of graduates and graduation rates.

Institution	Relevant Enrollment Data		Number of Graduates			Graduate Rate	
	Current	Year 1 Previous	Year 2 Previous	Current	Year 1 Previous	Year 2 Previous	
BSU							
CSI							
CWI							
EITC							
ISU							
LCSC							
NIC							

UI			
NA/11 41.1	 ··· · · · · · · · · · · · · · · · · ·		<u> </u>

9. Will this program reduce enrollments in other programs at your institution? If so, please explain. A decrease in enrollment is not expected in the welding program due to the demand in industry. This program will expand the skills needed for advanced positions in industry. <u>The local industries have expressed their intention to expand manufacturing and increase their workforce.</u>

No

10. Provide verification of state workforce needs such as job titles requiring this degree. Include State and National Department of Labor research on employment potential. *This question is not applicable to requests for discontinuance*. The workforce needs in region VI have recently been projected to increase in the number of openings for QCEW, non-QCEW and self employed workers during 2015-2017 timeframe. This increase was projected by local employers in region VI. The counties in region VI include Butte, Fremont, Madison, Clark, Jefferson, Teton, Custer and Lemhi.

The following workforce needs information was provided by the Idaho Department of Labor Region VI Regional Economist.

# Multiple Machining, Tool Setters, Operators, and Tenders, Metal and Plastic

	Idaho	Eastern Idaho	Idaho Falls MSA
Median Hourly Earnings	\$15.76	\$17.06	\$17.19
2014 Jobs	320	20	17
2012-2022 Change	53	7	6
2012-2022 Estimated Annual Openings	11	1	1

Using the chart below, indicate the total projected job openings (including growth and replacement demands in your regional area, the state, and nation. Job openings should represent positions which require graduation from a program such as the one proposed. Data should be derived from a source that can be validated and must be no more than two years old. This question is not applicable to requests for discontinuance.

	Year 1	Year 2	Year 3	Total
Region <u>VI</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>45</u>
State				
Nation				

a. Describe the methodology used to determine the projected job openings. If a survey of employment needs was used, please attach a copy of the survey instrument with a summary of results as Appendix C.

Representatives from the local and regional manufacturing sector have been interviewed individually by representatives of EITC, Idaho Department of Labor, and Idaho Department of Commerce. On November 6, 2013, the College and its partners listed above conducted an Eastern Idaho Manufacturing meeting at the Center for Advanced Energy Studies (CAES) to

discuss the formation of a regional Manufacturing Association and to assess need for training in this job sector.

b. Describe how the proposed change will act to stimulate the state economy by advancing the field, providing research results, etc.

Students entering jobs in the advanced manufacturing typically enter employment at a high pay scale. According to the U.S. Department of Labor Bureau of Statistics, "In May 2012, the median hourly wage for machinists was \$18.99. The median hourly wage for tool and die makers was \$22.60 in May 2012.

c. Is the program primarily intended to meet needs other than employment needs, if so, please provide a brief rationale.

N/A

11. Will any type of distance education technology be utilized in the delivery of the program on your main campus or to remote sites? Please describe. This question is not applicable to requests for discontinuance.

This program will not be delivered via distance education or to remote sites. All courses will be taught at Eastern Idaho Technical College in Idaho Falls.

# 12. Describe how this request is consistent with the State Board of Education's strategic plan and institution's role and mission.

The 60% goal that the State Board of Education has challenged all of the Idaho institutions to meet will be supported by this new program. <u>EITC's mission is to provice superior educational</u> services to prepare students to be successful in the regional workforce. The training provided by this new program will increase opportunities for students to enter a workforce with good wages and benefits.

**13.** Describe how this request fits with the institution's vision and/or strategic plan. This question is not applicable to requests for discontinuance\_EITC's vision is to be a superior professional technical college and to grow with industry needs. Our advisory committee, composed of industry representatives, such as, Idaho Steel, AMET, Spudnik Equipment, Diversified Metals, CIVES and Ox Industries have all participated in designing and supporting our Tool Technology Program.

Goals of Institution Strategic Mission	Proposed Program Plans to Achieve the Goal
Provide superior technical education	Students enter industry jobs ready to work
Meet the needs of local Workforce	High employment rates at the end of the program

**14. Is the proposed program in your institution's Five-Year plan? Indicate below**. This question is not applicable to requests for discontinuance.

Yes X No

If not on your institution's Five-Year plan, provide a justification for adding the program.

# 15. Explain how students are going to learn about this program and where students are going to be recruited from (i.e., within institution, out-of-state, internationally).

Students will learn about this program from the EITC website and recruitment conducted at secondary schools throughout eastern Idaho. Industry representatives have also agreed to attend high school job fairs and student orientations to promote the Machine Tool Technology Program.

16. Program Resource Requirements. Using the <u>Excel spreadsheet</u> provided by the Office of the State Board of Education, provide a realistic estimate of costs needed for the overall program. This should only include the additional costs that will be incurred and not current costs. Include both the reallocation of existing resources and anticipated or requested new resources. Second and third year estimates should be in constant dollars. If the program is contract related, explain the fiscal sources and the year-to-year commitment from the contracting agency(ies) or party(ies). Provide an explanation of the fiscal impact of the proposed discontinuance to include impacts to faculty (i.e., salary savings, re-assignments).

Please see attached.

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Revised 7/13

# PTE ATTACHMENT B (Program Profile)

# Indicate the nature of this submission

X	New Program (option, certificate, or degree)	Non-Substantive Change(s)
	Expansion of an Existing Program (An addition of a certificate or degree to an existing program)	Other (please list)

Please submit a separate PTE Attachment B for each new program, expansion, or nonsubstantive change.

Date Submitted	11/21/14
Effective Date	
Institution	Eastern Idaho Technical College
Program/Option Title	Machine Tool Technology
	Insert Program Name/Option Title (i.e. Business
	Technologies/Marketing and Management)
Degree/Certificate	Intermediate
	Technical Certificate
	If a Certificate, indicate type (i.e. Technical, Advanced Technical or Postsecondary Technical)
CIP Code Number	48.0501
CIP Code Title	Machine Tool Technology/Machinist
SOC Code Examples*	49-9043 Maintenance Workers, Machinery; 51-4011 Computer- Controlled Machine Tool Operators, Metal and Plastic
TSA	National Institute of metallurgy Skills Accreditation (NIMS)
*The list of SOC codes	does not need to be comprehensive but should provide

meaningful examples of occupations related to the program.

Revised 7/13

# STUDENT LEARNING OUTCOMES

List the student learning outcomes for the program:

- Machinists set up and operate a variety of computer-controlled and mechanicallycontrolled machine tools to produce precision metal parts, instruments, and tools.
- Work from blueprints, sketches or computer-aided design (CAD), and computeraided manufacturing (CAM) files
- Turn, mill, drill, shape, and grind machine parts to specifications
- Graduates will exhibit desirable work habits, ideals, and attitudes essential to successful job performance.
- Graduates will communicate effectively with industry peers in the vernacular of professional tradespersons.

Revised 7/13

Answer the following questions in the category that applies for either "New Program or Option" or "Non-Substantive Change"

# NEW PROGRAM OR OPTION

1. Describe how this request is consistent with the Division of Professional-Technical Education's strategic plan.

The Intermediate Technical Certificate will allow students to exit the program with skills and a certification that will meet entry level training for industry. This meets with the PTE Strategic Plan for 2013-17. Goal 1/3. Student completion rate and concentrators who complete a program. Goal 2. Ensure that PTE Programs are meeting industry needs of the area. PTE Strategic Plan for 2014-18. Goal1. Positive placement for students who complete a program.

- Describe the discussion with PTE and the TCLC regarding this request. The Machine Tool Technology Program was part of a PTE line item request by all of the PTE colleges in Idaho. This was discussed at PTE meetings and TCLC meeting several times to determine the unique programs that would be offer to meet local industry needs.
- 3. Provide advisory committee/industry input supporting this request.

The following industries have helped to develop the curriculum and will serve on the advising committee with a representative:

AMET CIVES American Fabrication Batelle Energy Alliance Idahoan Foods

4. What is your plan to mitigate the impact this request will have on similar secondary and postsecondary programs (e.g. advanced learning opportunity, early college, distributed/hybrid)?

EITC does not anticipate that there will be a significant impact on other programs in the local areas. ISU is developing a program for Advanced Manufacturing but will not compete with this program. This program may integrate into an early college program in the future.

# NON-SUBSTANTIVE CHANGE

Changes to a program name or title changes (e.g., programs, degrees, certificates, departments, divisions, colleges, or centers), Course number/prefix change, Course title change, Credit/lab/contact hour change, Semester offered change, Catalog description change, Co-/Prerequisite change, Create new Course(s), Delete existing course(s).

1. Describe the impact this change will have on students currently enrolled in the existing program.

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# **COURSE SEQUENCE**

FALL SEMESTER (15 Weeks)				
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical	
MACH 103	Machine Shop Laboratory	6	Technical	
MACH 126	Related Blueprint Reading	2	Technical	
MACH 143	Related Machine Shop Mathematics	3	Technical	
MACH 153	Machine Shop Theory	3	Technical	
COMM 101	Fundamentals of Oral Communication	3	GenED	
Total		17		

SP			
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical
MACH 104	Machine Shop Laboratory	6	Technical
MACH 127	Related Blueprint Reading	2	Technical
MACH 154	Machine Shop Theory	3	Technical
MATH GE	General-education math course	3	GenEd
ENG 101	General-education English course	3	GenEd
Total		17	
Total			

SUMMER SEMESTER (XX Weeks)			
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical

Revised 7/13

Total		

FALL SEMESTER (15 Weeks)			
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical
			· · · · · · · · · · · · · · · · · · ·
			-
Total			
Total			

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Revised 7/13

SPRING SEMESTER (15 Weeks)			
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical
To	otal		

Summary (XX Weeks)		
General (Academic) Education	9	
Technical Credits	25	
Grand Total	34	

Revised 7/13

# COURSE TITLES, DESCRIPTIONS AND CREDITS

List all technical course titles, descriptions, and credits for this program.

#### MACH — MACHINE TOOL TECHNOLOGY

MACH 103 MACHINE SHOP LABORATORY (6 Credits, fall) Lab to support MACH 153. PREREQ: Machine Tool Technology Orientation COREQ: MACH 153.

**MACH 104** MACHINE SHOP LABORATORY (6 Credits, spring) Lab to support MACH 154. PREREQ: MACH 103. COREQ: MACH 154.

**MACH 126** RELATED BLUEPRINT READING (2 Credits, fall) Basic principles and techniques of reading orthographic projection drawings and technical sketching as applied to machine shop practice.

**MACH 127** RELATED BLUEPRINT READING (2 Credits, Spring) Advanced principles to interpret more complicated machine shop detail and assembly drawings with emphasis on machining specifications and materials. Introduction to the use of the Machinery's Handbook in interpreting blueprint specifications and associated machining processes. PREREQ: MACH 126.

**MACH 143** RELATED MACHINE SHOP MATHEMATICS (3 Credits, Fall) Applied mathematics relating to machine tool technology including fundamentals of algebra, principles of plane geometry, trigonometry, and compound angles. PREREQ: Placement into MATH 108 or MATH 143 or successful completion of MATH 025 with a B or better.

**MACH 153** MACHINE SHOP THEORY (3 Credits, Fall) machining processes and their applications as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. Care, use, and maintenance of layout and inspection tools, the use of hand tools and minor power tools, as well as the setup, operation and maintenance of manual engine lathes, drill presses, and power saws. COREQ: MACH 103.

**MACH 154** MACHINE SHOP THEORY (3 Credits, spring) Machining processes and their applications as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. Setup, operation, and maintenance of manual milling machines, advanced manual engine lathe set-up techniques and operations, precision surface grinding and measuring techniques. PREREQ: MACH 153. COREQ: MACH 104.

**MACH 203** ADVANCED MACHINE SHOP LABORATORY (6 Credits fall) Lab to support MACH 253. PREREQ: MACH 104. COREQ: MACH 253.

MACH 204 ADVANCED MACHINE SHOP LABORATORY (6 Credits, spring) Lab to support MACH 254. PREREQ: MACH 203. COREQ: MACH 254.

**MACH 211** FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (2 Credits, fall) Introduction to computer-aided drafting and design systems to prepare students for keyboarding, operating the systems, and understanding the applications of computer graphics to machine standards. Students will use an interactive computer graphics system to prepare drawings on a CRT.

**MACH 212** COMPUTER-AIDED MANUFACTURING (3 Credits, spring) Writing computer numerical control (CNC) machine tool programs using computer-assisted techniques to generate G-Code and M-Function programs. Tooling concepts, machining methods, definition of part geometry, writing of tool motion statements, use of the computer to process program inputs, analysis, and debugging of computer outputs to develop a functional program. PREREQ: MACH 253.

Revised 7/13

MACH 224 TOOL DESIGN FOR MANUFACTURING (2 Credits, Spring) Advanced setup techniques, tool and hardware selection, and process planning for manufacturing, as well as jig and fixture design for production machining. PREREQ: MACH 154.

**MACH 225** GEOMETRIC DIMENSIONING AND TOLERANCING (2 Credits, fall) basic geometric dimensioning and tolerancing (GD&T) methods as interpreted in ASME Y14.5M. The student will learn to read and use geometric tolerancing symbolism and terms. PREREQ: MACH 127.

MACH 253 ADVANCED MACHINE SHOP THEORY (3 Credits, fall) introduces basic programming skills and operation of computer numerical control (CNC) machining centers. Emphasis on manually writing (G&M compatible) programs, debugging programs, setups and fixturing, tooling, offset calculations, and operating CNC machining centers. COREQ: MACH 203.

MACH 254 ADVANCED MACHINE SHOP THEORY (3 Credits, spring) introduces basic programming skills and operation of computer numerical control (CNC) turning centers. Emphasis on manually writing (G&M compatible) programs, debugging programs, setups and fixturing, tooling, offset calculations, and operating CNC turning centers. COREQ: MACH 204.



Revised 7/13

# PTE ATTACHMENT B (Program Profile)

# Indicate the nature of this submission

X	New Program (option, certificate, or degree)	Non-Substantive Change(s)
	Expansion of an Existing Program (An addition of a certificate or degree to an existing program)	Other (please list)

Please submit a separate PTE Attachment B for each new program, expansion, or nonsubstantive change.

Date Submitted	11/21/14
Effective Date	
Institution	Eastern Idaho Technical College
Program/Option Title	Machine Tool Technology
	Insert Program Name/Option Title (i.e. Business Technologies/Marketing and Management)
Degree/Certificate	
	AAS Degree
	<i>If a Certificate, indicate type (i.e. Technical, Advanced Technical or Postsecondary Technical)</i>
CIP Code Number	48.0501
CIP Code Title	Machine Tool Technology
SOC Code Examples*	49-9043 Maintenance Workers, Machinery; 51-4011 Computer- Controlled Machine Tool Operators, Metal and Plastic
TSA	National Institute of metallurgy Skills Accreditation (NIMS)
	does not need to be comprehensive but should provide of occupations related to the program.

Revised 7/13

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Revised 7/13

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# **COURSE SEQUENCE**

FALL SEMESTER (15 Weeks)			
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical
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MACH 143	Related Machine Shop Mathematics	3	Technical
MACH 153	Machine Shop Theory	3	Technical
COMM 101	Fundamentals of Oral Communication	3	GenED
Total		17	

SP	<b>RING SEMESTER (15 Weeks)</b>		
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical
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MACH 127	Related Blueprint Reading	2	Technical
MACH 154	Machine Shop Theory	3	Technical
MATH GE	General-education math course	3	GenEd
ENG 101	General-education English course	3	GenEd
Total		17	
Total			

SUMMER SEMESTER (XX Weeks)			
Course Prefix & Number	Course Title Credits		Gen Ed/ Technical

Revised 7/13

Total		

FALL SEMESTER (15 Weeks)			
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical
MACH 203	Advanced Machine Shop Laboratory	6	Technical
MACH 211	Fundamentals of Computer-Aided Drafting and Design	2	Technical
MACH 224	Tool Design for Manufacturing	2	Technical
MACH 253	Advanced Machine Shop Theory	3	Technical
ENGL 101	English Composition 1	3	GenEd
Total		16	
Total			

Revised 7/13

SP					
Course Prefix & Number	Course Title	Credits	Gen Ed/ Technical		
MACH 204	Advanced Machine Shop Laboratory	6	Technical		
MACH 212	Computer-Aided Manufacturing	3	Technical		
MACH 225	Geometric Dimensioning and Tolerancing	2	Technical		
MACH 254	Advanced Machine Shop Theory	. 3	Technical		
ELEC GE	Any additional general-education elective from approved list (science or language course recommended)	4	GenEd		
Total	-	18			

Summary (XX Weeks)	
General (Academic) Education	16
Technical Credits	52
Grand Total	68

Revised 7/13

# COURSE TITLES, DESCRIPTIONS AND CREDITS

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Revised 7/13

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current costs. Include both the reallocation of existing resources and anticipated or requested new resources. Second and third year estimates should be in constant dollars. If the program is contract related, explain the fiscal sources and the year-to-year commitment from the contracting agency(ies) or party(ies). Provide an explanation of the fiscal impact of Program Resource Requirements. Provide a realistic estimate of costs needed for the overall program. This should only include the additional costs that will be incurred and not the proposed discontinuance to include impacts to faculty (i.e., salary savings, re-assignments).

A. REVENUE

	WARCH 5, 2015																	
ive Total	One-time	\$0.00	\$150,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150,000.00	Cumulative Total	One-time	\$0.00	\$0.00	\$150,000.00	\$0.00	\$0.00	\$150,000.00	\$0.00	
Cumulative Total	On-going	\$0.00	\$452,400.00	\$0.00			\$0.00	\$452,400.00	Cumulat	On-going	\$242,400.00	\$210,000.00		\$0.00	\$0.00	\$452,400.00		
2016017	One-time							\$0.00		<b>One-time</b>						\$0.00	\$0.00	
FY 17	On-going		\$150,800.00					\$150,800.00	FY17	On-going	\$80,800.00	\$70,000.00				\$150,800.00	\$0.00	çe.
2015-16	<b>One-time</b>							\$0.00		<b>One-time</b>						\$0.00	\$0.00	ie part of the bas
FΥ 16	On-going		\$150,800.00					\$150,800.00	FY16	On-going	\$80,800.00	\$70,000.00				\$150,800.00	\$0.00	which will becon art of the base.
2014-15	One-time		\$150,000.00					\$150,000.00		One-time			\$150,000.00			\$150,000.00	\$0.00	for the program (
FY 15	On-going		\$150,800.00					\$150,800.00	FY 15	On-going	\$80,800.00	\$70,000.00				\$150,800.00	\$0.00	oerating budget unding in a fisca
UE		1. Appropriated (Reallocation)	2. Appropriated (New)	3. Federal	4. Tuition	5. Student Fees	6. Other (Specify) line item	Total Revenue	EXPENDITURES		1. Personnel	2. Operating	3. Equipment	4. Facilitíes	5. Other (Specify)	Total Expenditures	Net Income (Deficit)	Ongoing is defined as ongoing operating budget for the program which will become part of the base. One-time is defined as one-time funding in a fiscal year and not part of the base.
. REVENUE		1. A	2. 4	3. F	4. 1	5.0	6. 0		. EXPEN		<i>т.</i>	2. (	З. Е	4, F	5. (			ŇO

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#### INSTRUCTION, RESEARCH AND STUDENT AFFAIRS MARCH 5, 2015

IRSA

Page 1

March 7, 2012

Program Proposal Budget Template

(Baccalaureate, Graduate, Doctorate)

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