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Utahs	stateUniv	versity	and all othe once the re	r pertinent documents. view, approval, and sign	Sponsored nature proc	Programs will submit the person is complete.	proposal to the sponsor
2015-05-2	0 15:57:53	PROPOSAI		OVAL FORM	(SP-01	Date Stamp Received by Sponsored Prog (Sponsored Programs Use	jrams: Only)
	BER				Date Du	le	Time Due
1 5 1 0	4 1		SUBMIT	Tuesd	lay, May	/ 26, 2015	5:00 PM
PROPOSAL TYPE: (This action)			Submit Pro	posal To (Name):	Address:	Ph	one:
TYPE OF ASSISTANCE: Other Spo	onsored Activitie	es-On Campus	Email: dws_ucap	@utah.gov		Em	ail Mail Electronic
PROJECT TITLE: USU-BC, BATC Shared Compos	ites Lab at US	J Brigham Cit	y Region	al Campus			
STATEMENT OF BENEFIT:							
Develop an advanced composites training faciliti qualified people.	y in Brigham City. Ex	kpand industry certifi	cation trainin	g courses in composites a	at Brigham (City to support the growing ne	eed of local industry for
SPONSOR/Pass Through Entity (PTE) - The State of Utah Department of Wor	Entity/Organization Kforce Service	that will directly fur S	nd USU:	TYPE OF SPO	nsor: Ut	ah State Govt. Agend	су
PRIME SPONSOR - Entity/Organization when	PRIME SPONSOR - Entity/Organization where the funding originates (Enter only If different from the SPONSOR/Pass Through Entity listed above):						
SPONSOR SOLICITATION NO.:		CFDA NO. (Federal	Grants):		NAIC	S Code (Federal Contracts):	
INVESTIGATORS: (USU Investigators Only) IF MORE THAN 4 C	O-I's ARE INVOLVE	D IN THIS PR	OJECT ATTACH SEPARA	TE SHEET W	/ITH THEIR INFORMATION 1	TO THIS FORM.
Principal Investigator (PI) Name	Banner ID #	Phone Number 435-919-1200	UMC 5100	E-mail Addre	edu		Department
PI has completed rEast training	Pl· This proje	ect is associated w	ith LISTAR		Jour	Resea	rch Center
			III OJIAN			Regional Campuses/Di	istance Ed. (RCDE)
Co-Investigator (Co-I) 01 Name	Banner ID #	Phone Number	UMC	E-mail Addre	SS	College	Department
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Co-Investigator (Co-I) 03 Name	Banner ID #	Phone Number	UMC	E-mail Addre	SS	College	Department
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Co-Investigator (Co-I) 04 Name	Banner ID #	Phone Number	UMC	E-mail Addre	SS	College Choose One	Department Select College First
Co-I 04 has completed rFast training	Co-I 04: This	project is associat	ted with US	TAR		Resea	rch Center
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Ducinoce Manager for DL 9 / Dert	Donnor ID #	Dhone Number					
Lee Ann Ferrara	A00014870	435-797-3108	5100	E-mail Addre	isu.edu		
ESTIMATED START DATE (This Ac	tion):	ESTIMATE	ED END DAT	E (This Action):		REQUESTED AMOUN	IT (This Action):
July 01, 2015		J	une 30,	2016		\$200,00	0.00

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FACILITIES & ADMINISTRATIVE (F&A) COSTS: (Complete this section only if F&A will be less than USU's Federally Negotiated Rate.)										
	5			Enter F&	&A % as a Decimal (i.e., 40.0% = .40)					
	F		Direct Costs	V	F&A Percent	Negotiated F&A Amount				
	• F&	A Costs per Federally Negotiated F&A Agreement	\$200,000.00	Х	0.23500 =	\$47,000.00				
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VZ						Unrecovered F&A Amount				
		Amount of Unrecovered F&A Costs:	:			\$47,000.00				
	JUSTIFICATION FOR UNRECOVERED FACILITIES AND ADMINISTRATIVE (F&A) COSTS									
A. F&A	Costs R	estricted by the Sponsor: Publicly pu	blished F&A restriction must be	identif	ied or attached to this S	P-01.				
F&A ALL	OCATION A	GREEMENT (OPTIONAL): If using,	In the event an award is made the colla , please complete the F&A Allocation Agree	aborating ement For	g parties agree to the F&A distr rm found under Forms on the Sp	ribution attached onsored Programs Website				
BU	DGET: PLE	ASE SUBMIT A <u>BUDGET & NARRATIVE</u> WITH 1	THIS FORM. USU Budget Template: http://www.internationalized.com/internationali	s://rgs.u	su.edu/spo/files/uploads/forms	s/ProposalBudgetTemplate.xls				
Yes	X No	SUB-AWARDS:	Does this project include subawards?							
			Please have a Subrecipient Commitment submitted with budget, budget narrative, a	Form (fou and stater	and under Forms on the Sponsor nent of work for each subrecipier	ed Programs Website) completed & nt.				
Yes	X No	PROFESSIONAL & TECHNICAL SERVICES:	Does this project include any outside of Please provide Consultant Letter found up	consultar nder Forn	nts? ns on the Sponsored Programs V	Vebsite for each consultant				
X Yes	No	COST SHARE:	Is there cost share required or offered	?						
		02	Please complete either the USU Provided found under Forms on the Sponsored Pro	l Cost Sh ograms W	are Commitment Form or the Thi 'ebsite	rd Party Cost Share Commitment Form				
Yes	X No	EXTRA SERVICE COMPENSATION:	Does the budget for this action include Service Compensation?	e any Intr	a-University Consulting that is	expected to be paid as Extra				
Yes	X No	PROGRAM INCOME:	Explain:							
		EXPORT CONTROL/ITAR REGULATIONS:	Will any portion this project potentially	, bo cubi	act to Export Control/ITAD rog	ulations?				
			will any portion this project potentially	pe subj	ect to <u>Export Control/ITAR reg</u>					
COMPLIA	NCE AND E	NVIRONMENTAL HEALTH & SAFETY: Does this	s project involve Please answer <u>ALL</u> q	uestions	(A - I) in this section.					
Yes	X No	A. Human Participants IRB Protocol P	ending Protocol Approval Date:		Protocol N	0.:				
Yes	X No	B. Live Vertebrate Animals IACUC Protoco	Protocol Approval Date:		Protocol N	0.:				
Yes	X No	C. Biohazards								
Yes	X No	D. Narcotics								
		E Dadioactivo Matorials / V Dav								
Yes	X No	F. Lasers (Classes 3b or 4)								
Yes	× No	G. Recombinant DNA				DS				
Yes	× No	H. Particularly Hazardous Chemicals				VZ				
Yes	X No	I. USDA / HHS Select Agents and Toxins								
CONFLICT	CONFLICT OF INTEREST: The following Conflict of Interest section pertains to the Principal Investigator and all other Key Personnel involved with this project. The term "you" in these questions refers to the respondent or any member of the respondent's immediate family.									
	V No	A Do you have a significant financial interact or	serve as a director or officer in a commore	ial organi	zation	DS				
		i. That could become involved in this project?		aa organi	201011.	σz				
		ii. Whose business is substantially related to	subject matter of this project?							
Yes	× No	B. Do you plan to use University facilities or pers	connel in the conduct of research, testing, o	or work for	r your outside interest that will be	related to this project (or continuing)				
		project?	f \$100 or more from a commorcial ontitu th	at is conn	acted to this project?					
					interest in this project?					
Yes	X No	D. Do you supervise any students or other perso	nnel who will be working on this project an	d who als	o work for your outside interest?					
Yes	X No	E. Is this project related to subject matter in which	ch you are aware that another sponsor or en	ntity has a	a claim to ownership or any rights	s granted by USU and/or USURF?				

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CONČURRENCE: Initials and Signatures on this Document Indicate You Have Read, Understand, & Agree to the Following: - By our signature below we certify that the staff time of individuals involved, space, equipment, computer systems and infrastructure, alterations, cost sharing funds, facilities, vehicles, etc., required for this project are available or are part of direct costs required in this proposal. We endorse the appropriateness and quality of this proposal in accordance with <u>USU Policy 531.4</u>, "Criteria for Submission, Approval and Negotiation of Contracts and Grants." Signature hereto indicates compliance with <u>FAR 52.203-7</u> (MAY 2014), <u>35 U.S.C. § 200-212</u>, and the <u>Anti- Kickback Enforcement Act of 1986</u>. - We understand that all awards are made to Utah State University (USU) as an institution and not to any individual associated with this project. Therefore, Investigators do hereby assign to USU all rights, title, and interest in any and all inventions conceived or that may be conceived or first reduced to practice under funding awarded from this proposal; and do hereby assign to USU all rights in any and all patent(s) and patent application(s) covering such invention(s). - Any award resulting from this proposal shall be forwarded to the Division of Sponsored Programs for review, negotiations, and signature as USU's officially authorized representatives having been delegated signature authority to bind USU in Sponsored Programs related activities per <u>USU's Official Policy No. 528</u>.

PRINCIPAL INVESTIGATOR (PI):

Printed Names:	Signat@eeuSigned by:	
Thomas R. Lee	Thomas Q Lee	5/21/2015
Principal Investigator	Pincipal 2260 200 4 77 42B	Date
David Woolstenhulme	Dave Woolstenlindme	5/21/2015
PI Department Head	Dipartment Hassignered at Hassignere	Date
Thomas R. Lee	Thomas Q Lee	5/21/2015
Dean	Dean Dogy Signed by F42B	Date
Janis K. Morales	Janis Morales	5/21/201
Research Center Director	Research Center Director F4116D7C20EC48A	Date

PI must initial here if this is NIH/PHS prime or flow through funding and Live Vertebrate Animals are being used. By initialling here the PI assures USU and the Sponsor that the information provided in the proposal / application is consistent with that information provided and approved in the IACUC protocol.

If NIH is the prime sponsor, or if NIH is providing flow through funding for this project, PI must initial here to indicate that they have read and understand the NIH Public Access Policy at http://publicaccess.nih.gov. Peer-reviewed articles accepted for publication on / after April 7, 2008 that result in whole or in part from NIH funded research must be submitted to the National Library of Medicine's PubMed Central via the NIH Manuscript Submission system and made available within 12 months of publication.

Co-INVESTIGATOR 01 (Co-I):			Co-INVESTIGATOR 02 (Co-I):		
Printed Names:	Signatures:		Printed Names:	Signatures:	
Co-Investigator 01	Co-Investigator 01	Date	Co-Investigator 02	Co-Investigator 02	Date
Department Head	Department Head	Date	Department Head	Department Head	Date
Dean	Dean	Date	Dean	Dean	Date
Research Center Director	Research Center Director	Date	Research Center Director	Research Center Director	Date

Co-INVESTIGATOR 03 (Co-I):			1
Printed Names:	Signatures:		l
Co-Investigator 03	Co-Investigator 03	Date	
Department Head	Department Head	Date	
Dean	Dean	Date	
Research Center Director	Research Center Director	Date	

Co-INVESTIGATOR 04 (Co-I):				
Printed Names:	Signatures:			
Co-Investigator 04	Co-Investigator 04	Date		
Department Head	Department Head	Date		
Dean	Dean	Date		
Research Center Director	Research Center Director	Date		

Division of Sponsored Programs (DSP):		
Printed Name:	SignatubecuSigned by:	
Corey Burger	Lungarger	5/21/2015
DSP Administration	DSP Administration	Date

USU-BC, BATC shared composites lab at USU Brigham City Regional Campus - \$200,000

Utah State University Brigham City Regional Campus (USU-BC) and Bridgerland Applied Technology College (BATC) have worked together over the last year to develop plans and start the construction of a composites lab in the Utah State University Brigham City Regional Campus building. USU-BC hired a consultant from the composites industry to help plan the composites lab and BATC has hired an instructor to teach composites and robotics in the newly designed area. USU is also completing a search for a new faculty member in USU's Technology and Engineering Education program in the Applied Sciences, Technology, and Education Department who will be located at the Brigham City campus and teach courses in the AAS in General Technology degree, including USU courses in composites that will build on the courses in the BATC certificate. Approximately \$450,000 has been budgeted for the remodel costs by USU-BC and the project is currently out for bid. The project will cover the cost of construction, HVAC, and the extensive ventilation system, and also a composites oven, a walk in cold room for the pre-impregnated materials, the compressor, vacuum pump, and a dust-collection system. The construction budget does not include the industry specific equipment to train students in the high tech composites industry. This grant request is to fund the purchase of that needed equipment.





Utah Cluster Acceleration Partnership Grant Proposal

Name of Educational Institution:	Utah State University Brigham City Regional Campus (USU-BC) and Bridgerland Applied Technology College (BATC)
Primary Contact Person:	Thomas Lee
	Dean and Executive Director
	tom.lee@usu.edu
	265 W 1100 S, Brigham City, UT 84302

Abstract:

Summary:

Utah State University Brigham City Regional Campus and Bridgerland Applied Technology College are requesting funds to purchase equipment and supplies to equip the newly remodeled composites lab at the USU Brigham City Regional Campus.

Applicant Type: Educational Institution Post-Secondary

Targeted Industries and Occupations: Composites Manufacturing, Production

Project Title: USU-BC, BATC shared composites lab at USU Brigham City Regional Campus

Key Partners and Secondary Educational Institutions:

Utah State University Brigham City Regional Campus, Bridgerland Applied Technology College, Box Elder School District, Box Elder County, Autoliv, Orbital ATK, Jones Enterprises, CoorsTech, TCR Composites and Go Composites

Counties to be Served: Box Elder County, Cache County

Projected Outcomes:

Develop an advanced composites training facility in Brigham City. Expand industry certification training courses in composites to Brigham City to support the growing need of local industry for qualified people.

Funding Level Requested: \$200,000

Narrative:

According to the Economic Development Corporation of Utah,

"Utah has one of the highest concentrations of advanced composites companies in the world. Through the years, Utah has developed a complete infrastructure supporting the advanced composites industry, including raw materials, engineering capability, an excellent workforce, manufacturing capability, sales experts, machine design, manufacturing support and general support. The future of the composites industry looks bright for Utah as government and industry demand continues to grow. Utah companies have always been highly innovative in their view of composites. Tremendous breakthroughs in the advanced composites industry have and continue to occur here. Both companies and higher educational institutions are dedicated to the growth and development of this industry."

Utah State University Brigham City Regional Campus (USU-BC) and Bridgerland Applied Technology College (BATC) have worked together over the last year to develop plans and start the construction of a composites lab in the Utah State University Brigham City Regional Campus building. USU-BC hired a consultant from the composites industry to help plan the composites lab and BATC has hired an instructor to teach composites and robotics in the newly designed area. USU is also completing a search for a new faculty member in USU's Technology and Engineering Education program in the Applied Sciences, Technology, and Education Department who will be located at the Brigham City campus and teach courses in the AAS in General Technology degree, including USU courses in composites that will build on the courses in the BATC certificate. Approximately \$450,000 has been budgeted for the remodel costs by USU-BC and the project is currently out for bid. The project will cover the cost of construction, HVAC, and the extensive ventilation system, and also a composites oven, a walk in cold room for the pre-impregnated materials, the compressor, vacuum pump, and a dust-collection system. The construction budget does not include the industry specific equipment to train students in the high tech composites industry. This grant request is to fund the purchase of that needed equipment.

Last year with the help of UCAP funds, BATC was able to expand and develop automated manufacturing and industrial robotics into the Brigham City Campus. The expansion of this program was needed to meet the needs of industry in Northern Utah. Composites is also part of this training and by adding the new facility, students will be able to be trained on Automation and Composites. There is strong industry support for training at USU-BC and BATC which would prepare students to work in these high tech fields with first a BATC certificate and then a AAS degree from USU-BC, and eventually a bachelor's degree.

Over the last two years Box Elder School District using state STEM and Pathways funds has developed introductory automation and robotics programs at both of the district high schools and have over 720 students enrolled in the introductory robotics and engineering classes. Automated manufacturing with composites is the next training step for these students. By partnering together, USU and BATC can offer students stackable credentials from high school through and associate's degree leading to good jobs in the composites and aeronautics cluster.

Starting July 1, 2015 BATC has two certificates that are approved and enrolling students in Automated Manufacturing and Robotics in Brigham City. A 300 hour certificate – Advanced Composites and a 1500 hour certificate – Automated Manufacturing Advanced with Composites Emphasis.

Students completing the 1500 hour certificate in Automated Manufacturing Advanced with the Composites Emphasis can apply this toward the AAS in General Technology through USU. After completing their certificate and being admitted to USU, they can complete an additional 33-36 credits, transfer in their BATC certificate and receive 30 credits and earn their AAS. For students who wish to, they can then continue and complete a bachelor's degree at USU or another USHE institution with their 60+ credits counting towards the bachelor's degree.

Developing a composites lab at the Brigham City Campus will allow USU and BATC to train more people per year and adding additional composites equipment would allow USU and BATC to increase the number of certificates and associate degrees given. There is local industry need for new employees with these skills and credentials. With this additional funding USU and BATC will be able to increase the number of students trained in composites and the number of students receiving certificates and AAS degrees to help meet the goals of the state.

Industry Need:

USU-BC and BATC have an advisory committee set up and strong industry support has been displayed. The first meeting was held with 22 people from 12 different entities. Short term training of current employees and training of prospective employees in composites were seen as high priorities for these industries. As an example, Orbital ATK is currently advertising for composites technicians at their Clearfield facility and anticipate needing 200 new employees in the next year.

Orbital ATK Composites Technician Job Listing

Job ID: KPC20152004-31450 Description: Orbital ATK is currently recruiting for a Composite Technician

Job Description:

As a Composite Technician you will work in the manufacturing operations arena and will be assigned to one-of a-kind and development activities. Tasks include:

- Material preparation and hand lay-up, complex tool set-up and precision bonding.
- Work from schematics, engineering drawings, and written or verbal instructions.

- Uses predetermined methods, sequences, and setups to create precision structures or components while making adjustments and modifications per drawings and procedures.

- Participates in program or functional team projects developing process improvement methods, solutions, and procedures to enhance program quality, cost, and scheduling

Minimum Requirements:

- High School diploma or GED required
- Minimum of 4 years of manufacturing experience, with 2 years composite preferred
- Experience in and /or knowledge of tooling, mandrels and fixtures for lay-up.

- Ability to fabricate materials into composite parts and assemblies using pre-preg and wet layup techniques and various required materials.

- Perform materials kitting - Perform bonding operations using weight and mix procedures for resins and adhesives.

- Able to test and maintain vacuum valves and hoses for autoclave processes.

- Able/willing provide training to others as required.
- Work independently with high degree of initiative & be part of a team.
- Ability to follow procedures and directions with minimal supervision
- Able to obtain a security clearance

- US citizen

Position can be filled at a lower level Composite Technician 06 min of 1 years of exp with High school diploma

Desired but not required

- Experiences serving as team lead a plus
- Painting/prepping experience a plus
- Program computer-controlled curing equipment (ovens, hot presses and autoclaves) to properly cure composites a plus
- Knowledge of other methods of composite processing a plus (RTM, VARTM, filament winding, etc.) Exposure to 5S, Kaizen

(Job Announcement Continues)

Contributions to Local Economic Growth:

Automated manufacturing and composites is the area that is helping local companies compete on an international level and the industry is growing rapidly. Up and coming companies like Hypercomp, CoorsTech and Enve create and manufacture a variety of composite products including high-pressure tanks, medical devices, aircraft components, and sports equipment.

Sustainable wages:

Composite Technician and Materials Engineer salary specific for Utah from the Bureau of

Labor Statistics: Composites Technician Median hourly wage \$12.34 Annual median wage \$25,660 Materials Engineers Median hourly wage \$30.88 Annual median wage \$64,217

Labor Market Demand:

Labor demand is increasing because of expansion of automated manufacturing and composites production facilities in Northern Utah. Below is data provided by the Utah Division of Workforce Services:

- There are 302 manufacturing establishments in the local area (Cache/Box Elder/Rich Counties)
- 31.1% of total area wages comes from manufacturing and manufacturing jobs in the Bear River area account for 13.1% of manufacturing jobs statewide
- 15,231 individuals are employed in the manufacturing industry with a payroll of \$649.9 million

Composites technicians and Engineers are seen as high importance skills in the occupational profiles from https://jobs.utah.gov/

Statewide employment numbers within the manufacturing industry:

- Computer-Controlled Machine Operators (580)
- Robotics Technicians (70)
- Mechatronics Engineers (580)
- First-Line Supervisors for Mechanics, Installers, and Repairers (4,260)
- Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (80)
- Electro-Mechanical Technicians (70)
- Industrial Machinery Mechanics (3,870)
- Team Assemblers (10,600)
- Inspectors, Testers, Sorters, Samplers, and Weighers (4,330)
- Manufacturing Engineering Technologists (500)
- Electrical Engineers (1,260)
- Industrial Engineers (1,940)
- Electrical Engineering Technicians (2,290)
- Industrial Engineering Technicians (610)
- Electrical and Electronics Repairers, Commercial and Industrial Equipment (1,090)

Local employment estimates for Cache/Box Elder Counties (note many of the positions have so few employment numbers reported that specific data is not available). This supports the need for skilled workers in the local area since Bear River comprises 13% of the manufacturing workforce for the state.

- Computer-Controlled Machine Operators (70)
- First-Line Supervisors for Mechanics, Installers, and Repairers (160)
- Industrial Machinery Mechanics (240)
- Team Assemblers (640)
- Inspectors, Testers, Sorters, Samplers, and Weighers (370)
- Electrical Engineers (130)
- Industrial Engineers (40)

References for Labor Market Demand:

http://bls.gov/oes/current/oes_ut.htm http://jobs.utah.gov/wi/pubs/industrybriefs/manufacturing_br.pdf

UTAH OCCUPATIONAL PROFILE FOR FIBERGLASS LAMINATORS AND FABRICATORS

51-2091 - Occupational Profile - Utah Statewide

Description	Laminate lay automobiles,	Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.					
Occupational Wages-	Ν	/ledian Hou	urly Wage		Median Ar	nnual Wage	
Published April 2014		\$12	34		\$25	5 660	
(data from May 2013)		÷	•••			,	
2012-2022 Employment Projections	This occupati should be a li for replaceme applicants, in the best job of industries, su finding qualifi expected to r occupation. (ion is expect ow volume ents, will pro- cluding thos opportunities ch as aeros ed applican esult from t compared to	ted to expendent of annual job povide the marked with tech s in the man space and e ts looking for he need to r o all occupa	ience faster b openings. E ajority of job o nical vocatior ufacturing se lectro-medica or manufactur eplace worke tions, wages	than average employ Business expansion, a openings in the comin nal training and certifu ector, particularly in gr al devices. Some emp ring employment. Mai ers who leave or retiru for this occupation an	ment growth, but there as opposed to the need ig decade. Qualified cation, are likely to have rowing, high-technology oloyers report difficulty ny job openings are e from this large re below average.	
	Importance	Skill			Description		
	60	Monitoring	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.				
Top 3 Skills for Fiberglass Laminators and Fabricators	56	Critical Thinking	Using logic of alternativ	and reasonii /e solutions, (ng to identify the stren conclusions or approa	ngths and weaknesses aches to problems.	
	56 Operation Watching gauges, dials, or other indicators to make sure a machine Monitoring is working properly.						
	*Importance	is on a sca	le of 1 - 100	. See http://o	nline.onetcenter.org	for further information.	
Utah State License	License info	rmation is	not availa	ole for this o	occupation.		
Top 3 Current Job	Job Tit	e Da	te Posted	Location	Minimum Salary	Maximum Salary	
Openings for Fiberglass	fiberglass wo	ork 05/0	5/2015	Utah			
Fabricators	See http://jobs.utah.gov/jobseeker/index.html for further job opportunities						

Sat May 16 10:27:23 MDT 2015 Change Report Style Change Occupation



UTAH OCCUPATIONAL PROFILE FOR MATERIALS ENGINEERS

17-2131 - Occupational Profile - Utah Statewide

Description	Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Includes those engineers working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. Includes metallurgists and metallurgical engineers, ceramic engineers, and welding engineers.							
Occupational Wages-	Median Hourly Wage Median Annual Wage							
Published April 2014 (data from May 2013)		\$30.88			\$64,217			
2012-2022 Employment Projections	This occupati volume of an expansion, is prospects she experienced i for those who to all occupat	ion is expected to nual job openings projected to mal- ould be favorable materials engined o train in tradition ions, wages for t	experience about a s. The need for repla te up the majority of as materials engine ers are promoted or al fields of materials his occupation are v	verage empl cements, ra job openings ers will be n retire. Prosp engineering, ery high.	oyment growth ther than from b s in the coming eeded to fill pos ects should also such as metall	with a moderate ousiness decade. Job itions as more o be favorable urgy. Compared		
	Importance	Skill		Descr	intion			
	75	Critical Thinking	Using logic and rea weaknesses of alter to problems.	soning to ide native solution	ntify the strengt	hs and s or approaches		
Top 3 Skills for Materials Engineers				Reading Understanding written sentences and paragraphs in work Comprehension related documents.				
Engineers	75	Reading Comprehension	Understanding writt related documents.	en sentence	s and paragrapl	hs in work		
Engineers	75 72	Reading Comprehension Active Listening	Understanding writt related documents. Giving full attention to understand the p appropriate, and no	en sentence to what othe oints being n t interrupting	s and paragrapl r people are say nade, asking qu at inappropriat	hs in work ying, taking time estions as e times. er information		
Engineers	75 72 *Importance	Reading Comprehension Active Listening is on a scale of 1	Understanding writt related documents. Giving full attention to understand the p appropriate, and no - 100. See <u>http://or</u>	en sentence to what othe oints being n t interrupting <u>line.onetcen</u>	s and paragrapl r people are say nade, asking qu at inappropriate ter.org for furthe	hs in work ying, taking time estions as e times. er information.		
Engineers Utah State License	75 72 *Importance	Reading Comprehension Active Listening is on a scale of 1 prmation is not a	Understanding writt related documents. Giving full attention to understand the p appropriate, and no - 100. See <u>http://or</u>	en sentence to what othe oints being n t interrupting line.onetcen	s and paragrapl r people are say nade, asking qu at inappropriate ter.org for furthe	hs in work ying, taking time estions as e times. er information.		
Engineers Utah State License	75 72 *Importance License info	Reading Comprehension Active Listening is on a scale of 1 ormation is not a Job Title	Understanding writt related documents. Giving full attention to understand the p appropriate, and no - 100. See http://or available for this or Date Posted	en sentence to what othe pints being n t interrupting line.onetcen ccupation.	s and paragraph r people are say nade, asking qu at inappropriate ter.org for furthe Minimum Salary	hs in work ying, taking time estions as e times. er information. Maximum Salary		
Engineers Utah State License Top 3 Current Job Openings for Materials Engineers	75 72 *Importance License info	Reading Comprehension Active Listening is on a scale of 1 ormation is not a Job Title	Understanding writt related documents. Giving full attention to understand the p appropriate, and no - 100. See <u>http://or</u> available for this of Date Posted S 05/15/2015	en sentence to what othe oints being n t interrupting line.onetcen ccupation.	s and paragraph r people are say nade, asking qu at inappropriat <u>ter.org</u> for furthe Minimum Salary	hs in work ying, taking time estions as e times. er information. Maximum Salary		

Sat May 16 10:30:09 MDT 2015 Change Report Style Change Occupation

> UEDV UTAH ECONOMIC DATA VIEWER

Sustainability:

The new certificates in Automated Manufacturing and Robotics (AM&R) in composites was approved to be taught in Brigham City starting July 2015 this gives a standalone 300-hour composites certificate and also as specializations in the AM&R 1500 hour program. This is a long standing program with industry demand and high placement rates. Having the long term instructor position funded and the lab built and equipped will make this long term and sustainable. Curriculum is already established and successful from the Logan BATC campus program. Adding the ability for students to also obtain an AAS degree from USU-BC will help people progress in their careers.

Student Demand:

93% placement in AM&R at BATC in 2014/2015

Collaboration:

This proposal has been put together with input and support from local educational entities, USU-BC and BATC, government entities (DWS), and local private industries. Below is a list of individuals that have given support or have been part of advisory meetings for composites training at USU-BC and BATC.

Tom Lee – USU-BC; Strat Roper – USU-BC Alan Done SLCC John Davidson – BATC; Matt Fuller – BATC; Ed Ball – BATC; Eric Schiess – BATC; Wayne Moore – BATC; Sterling Petersen - BATC Eden Johnson - DWS David Nelson Orbital ATK; Mandy Christiansen –Orbital ATK Kenny Smith – Autoliv; Kevin Fox - Autoliv Jeff Hadfield - Box Elder County Commission; Mitch Zundel- Box Elder Economic Development Paul Larsen – Brigham City Economic Development Carl Dilg - Consultant Kevin Karris – TCR Composites; Mark Matthews – TCR Composites Joe Stanish – ENVE Roy Jones – Jones Enterprise Utah Rolf Johns – Go Composites Andy Fauth - CoorsTech

Career Pathways:

Students interested in composites training have several options:

- 1. High school students taking BATC Robotics Stem Academy are introduced to composites in their high schools.
- 2. Short term industry certifications from the BATC. Is available for industry upgrade and certifications for the existing workforce.
- 3. 300 hour BATC certificate in composites is available for people wanting to get certification in composites.
- 4. BATC Automated Manufacturing and Robotics 1500 Hour training certification has the ability for students to have an emphasis in composites.
- 5. USU Associate degree in Technology obtained by completing 1500 hour certification and 32 credits from USU is available at the USU Brigham City Regional Campus.
- 6. BS Degree in Technology, Mechanical engineering or Manufacturing Engineering or Mechatronics from USHE schools.

Industry Recognized Certifications:

Currently in composites, BATC offers a 300 hour certificate in composites and the 1500 hour certificate in Automated Manufacturing and Robotics with a specialty in composites, these are

being taught in the BATC Logan campus. By securing the additional funding offered through this grant, USU and BATC will be able to offer these same certificates at the Brigham City Campus.

BATC currently employs one ABARIS trained composites instructor and currently offers a BATC certificate in composites. Additional funding would allow additional training to become an ABARIS training facility and offer a nationally recognized ABARIS certification. ABARIS is a provider of composite training out of Reno, Nevada, where many employees from ATK, Boeing, NASA, and others, attend for advanced composites instruction.

USU-BC Offers an AAS in General Technology for these students to continue on and the AAS is industry recognized. These students can also continue on at USU and work towards a BS degree.

Program Deliverables:

The following will be accomplished with this project:

- The main deliverable will be a complete composites training facility in Brigham City.
- BATC Certificate will be offered with 300 hour and 1500 hour exit points
- Industry training and certification will be offered in the facility
- USU-BC will offer a AAS in General Technology for the students to completing the BATC 1500 hour program to continue on with additional advanced composites courses and General Education classes

Leverage of Funds:

USU-BC has budgeted \$450,000 to remodel and update the building to house the Advanced Composites training lab and classroom. BATC has hired a full time instructor with a salary of \$50,000 plus benefits to teach the composites and Automated Manufacturing program in Brigham City. This is an ongoing long term positon to maintain sustainability of the new training facility. In addition USU is remodeling the space and the position. Industry has also stepped to the plate donating robots, composite cutting equipment and composite supplies.

Budget:

The following equipment list is retail price and over the \$200,000 grant request but with educational discounts and industry support we will be looking at these or similar equipment for the lab and will equip the lab with the requested budget.

Equipment	Model	Contact Name	Retail Cost
	ASC Econoclave		
Autoclave	EC2X6LT-100P350F-2S2P4T	Taricco	110,000
Composites Testing Equipment	Multiple Venders		22,000
Down Draft Table	Downdraft Clean Air Station	DualDraw	12000
Autometrix Cutter	M4	Autometrix	59,000
Shop Equipment Grinder, Band saw, Table saw, etc	Multiple vendors		9,000
Filament Winder	CNC Turbo 1000	John Green Sales	75,000

Project Timeline:

- 20114/2015 BATC Automated Manufacturing and Robotics program expanded to Brigham City sharing a robotics lab with USU-BC
- Summer 2015 BATC Hires Instructor for Composites and Automated Manufacturing in Brigham City
- Summer 2015 USU Hires Lecturer for Technology and Engineering Education in Brigham City
- Fall 14 and Spring 15 Architectural planning and engineering design of composites lab
- Spring quarter 2015 first robotics industry training offered in Brigham City
- April 2015 remodel project released for bid
- Summer/fall 2015 Remodel and construction of composites lab
- Winter 2016 BATC composite classes offered in Brigham City, 300 hour and 1500 hour certificates offered in new lab
- Existing Logan BATC students can work on USU AAS degree at USU-BC taking advanced composites courses, other USU-BC technology classes and general education requirements towards AAS in General Technology
- Fall 2016 BATC students start completing 300 hour certificate
- Winter 2017 BATC students start completing 1500 hour certificates in Brigham City

Attachment B Contract Budget Form

Contractor State of Utah Department of Workforce Services

Contract Number

Contract Period July 1, 2015 to June 30-2016

Program Expenses	Grant Request	Cash Matching	In-Kind Matching	Total
1. Salaries		8,693	50,000	\$ 58,693.00
2. Fringe Benefits		3,912	20,000	\$ 23,912.00
3. Equipment & Supplies	200,000			\$ 200,000.00
4. Marketing & Outreach				\$-
5. Professional Development/Travel				\$
6. Contract Services		200,000		\$ 200,000.00
7. Other				\$-
8. Indirect		49,962		\$ 49,962.00
9. Indirect (matching)				\$-
10. Facilities (matching)				\$-
11. Communications (matching)				\$-
12. Other (matching)				\$-
Total Program Expense	\$ 200,000.00	\$ 262,567.00	\$ 70,000.00	\$ 532,567.00

DWS UCAP Grant Fiscal Year 2015 **Grant Application Signature Sheet Public Post-Secondary Educational Institutions or Industry Trade Associations**

Organization

Name of Entity: USU BRIgham City Regional CAMPUS / BATC

By signing below, the following individuals attest that they have reviewed and approve the attached proposal for UCAP funding:

up Me

ean or equivalent

Thomas A Lee

May 18,15

DocuSigned by: Robert Belunin

Director Development Office

VP, Provost, UCAT Campus President

Robert Behunin

Print Name

MALGHAN IDSDI

nar 15

Print Name

Stan L. Albrecht

Institution President

Print Name

Date

Industry Trade Association Director (if applicable)

DWS Economic/Service Area Director

Print Name

Print Name

Date

Page 18 of 25

Date

5/21/2015

May 18

Date

Date

Sponsored Programs



REQUEST FOR DEAN WAIVER OF FACILITIES AND ADMINISTRATIVE COST REIMBURSEMENT

A request for reduction or complete waiver of F&A cost reimbursement must be approved by the USU principle investigator/project director's (PI/PD) Department Head/Center Director, and Dean prior to finalizing the project budget. After the appropriate approvals are in place this form must be submitted as an attachment to the SP-01 approval form.

Project Information			
USU Project Director Thomas R. Lee		USU Control # 151041	
	ed by:		
Tennes	O lu	5/21/2015	
SignatzzzießRi	pajexrf4DBrector	Date of Request	
Current Rate \$200, Requested Rate Amount	$\begin{array}{c} \text{rect Costs} & F\&A \text{ Rate} \\ \hline 000.00 & X & 0.235 \\ \hline 000.00 & X & 0 \\ \text{r of F&A reimbursement to be waived by U} \end{array}$	$ \begin{array}{c} = & \frac{\$47,000.00}{\$0.00} \\ = & \frac{\$0.00}{\$47,000.00} \end{array} $	
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Justification for Waiver:]
Sponsor does not allow F&A			
Appro DobuSigned by:	5/21/2015	David Woolstenhulme	
Sim Bocu Side ad Acenter Di	rector Date	Printed Name	
Thomas & lee	5/21/2015	Thomas R. Lee	
Signatationeter 64thread Dean	Date	Printed Name	
			_
Comments from Approvers:			



May 19, 2015

Reference:Request for Proposal (RFP)Utah Cluster Partnership Grant ProposalUtah State University and Bridgerland Applied Technology CollegeComposites Training Facility in Brigham City Equipment

To whom it may concern,

The purpose of this letter is to document my support for the above described application submitted for funds through the Utah Cluster Partnership Grant. Utah State University Brigham Campus and Bridgerland ATC have an excellent history of training and providing support to local business in Northern Utah. This training and support is essential to our region's efforts to expand our composites manufacturing cluster which provides high quality, high paying jobs.

Brigham City has partnered with these efforts by supporting development and expansion of the USU Brigham City Regional Campus through tax increment financing. I am very impressed with Utah State University and Bridgerland ATC and look forward to seeing the grant money used to further equip and provide training in the composites areas that are needed in northern Utah.

I look forward to using these resources by possibly hiring students or having employees trained in these areas to help my company be more productive and profitable.

Sincerely,

Paul Larsen Brigham City Economic Development Director

Jones Enterprises Utah, LLC



"Bringing shape to your ideas"

DATE: May 20, 2015

271 S. 200 W. Wellsville, Utah 84339 Phone: 435-770-5066

Memo To: BATC Advisory Committee / USU / Utah Legislature. Reference: Request for Proposal (RFP) / Utah Cluster Partnership Grant Proposal Utah State University and Bridgerland Applied Technology College **Composites Training Facility in Brigham City Equipment**

The purpose of this letter is to document my support for the above described application submitted for funds through the Utah Cluster Partnership Grant. Utah State University Brigham Campus and Bridgerland ATC have an excellent history of training and providing support to local business in Northern Utah

Having an Advanced Composites course offered through the BATC would be great for our business. We have an existing Fiberglass company here in Cache valley. We build Rock Climbing Walls as well as many verities of Roller Coaster Bodies. We are also building replacement Log Boats as well as many other projects. We currently have 6 employees a lot of them are new to composites and we are teaching them in house. It would help us a lot if we could hire people with some training and some hands on experiences.

Jones Enterprises Utah, LLC) is in the process of partnering with BATC in the following ways Donate Surplus Materials, Surplus Equipment, Possible Training Opportunities, Etc...

Bottom Line, This course would be great to have in the valley and it would train people for good jobs.

I personally have been designing and building roller coasters and other amusement rides for 35 years Myself and Ron Dreager co-ran the R&D Department for Arrow Dynamics in Clearfield for years and years. Back then we trained everyone including newly hired Engineers. Those were great times. Currently my wife and I own and operate a growing fiberglass company here in Hyrum Utah. We would benefit greatly from such a program.

Thank Your for Your Time and Consideration concerning this project. (Very Exciting Stuff)

Roy Jones: owner

Jones Enterprises Utah, LLC 435-770-5066

25 5/20/2015

If you have any questions concerning this memo, contact Roy Jones, 435-770-5066, roy@webmail66.com

THANK YOU FOR THIS OPPORTUNITY TO SERVE YOUR COMPOSITE NEEDS

Sponsored Programs



THIRD PARTY COST SHARING COMMITMENT FORM

Project Title _____

07/01/2015 to 06/30/2016 Project Period

USU Principal Investigator/Project Director (PI/PD)

Contributing Organization Name

Proposed Cost Share		
Personnel (salary, wages, & fringe benefits)	\$70,000.00	
Travel		
Supplies		
Equipment (Exceeds \$5000)		
Other (please specify)		
Total Contribution	\$70,000.00	

An **auditable record of the above support to USU** will be provided as required by the Prime Award and OMB circular A-110 as applicable for the duration of the Project.

USU and your organization, by virtue of your in-kind support, are subject to the U.S. Office of Management and Budget (OMB) Circular A-110, Section 23, Cost Sharing or Matching, which can be found at: <u>https://spo.usu.edu//files/uploads/OMBCircularA-110Section23.pdf</u>. In reviewing this section you will note that all contributions, including your portion, will be accepted as part of the cost sharing or matching when the contributions meet all of the following criteria:

- 1. Are verifiable from records.
- 2. Are not included as contributions for any other federally assisted project.
- 3. Are necessary in completing this project or this program's objectives.
- 4. Are allowable under the applicable government cost principles.
- 5. Are not paid by the Federal Government under another award.
- 6. Costs are incurred only during the exact same time period as this award.
- 7. Unrealized profit cannot be reported.
- 8. The basis for determining the valuation of personnel service, material, equipment, building and land must be documented.

cuSianed by: - () SignaaaftBof5CeoffPibutor

5/20/2015

John Davidson/Associated Vice President

Typed Name/Title

As USU PI/PD, I certify that the proposed cost share:

1. Is necessary and reasonable for the efficient accomplishment of the specified project, and

Date

2. Is allowable under the applicable cost principles and other terms and conditions of the award or program.

USU Project Director assumes fiscal responsibility for any and all costs associated with third party in-kind match which are unreported, uncollected, or disallowed.

DocuSigned by:	
Thomas Q Lee	5/21/2015
Signzadattesad4t/Stb.PI/PD	Date
Thomas R. Lee/Dean	

Typed Name/Title

Revised	11/21/2011
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Sponsored Programs



USU COST SHARING COMMITMENT FORM

Project Title USU-BC, BATC Shared Composites Lab at USU Brigham City Regional Cam

Principal Investigator/Project Director (PI/PD) Thomas R. Lee

Proposed Expenditures			
Sources of Cost Share: College Depart	rtment 🔀 Research Cent	ter Unrecovered F&A	VP for Research
(Check all that apply)			
Source Name	RC		
Personnel (salary, wages, & fringe benefits)	\$12,605.00		
Travel			
Supplies			
Equipment (Exceeds \$5000)			
F&A Costs	\$49,962.00		Unrecovered F&A
Other (please specify)	\$200,000.00		
Contribution Subtotal	\$262,567.00		
Total Contribution	\$262,567.00		
Cost Share Banner Index No.	A17069 & A20792		

The College/Department/Research Center is responsible for:

1. Collecting the in-kind financial reports and any required documentation

2. Verifying costs are appropriate to the best of their knowledge

Authorized by:

Thomas Q Lee	5/21/2015	
Signature Defeater Proventient Strength Bandy or Center Director	Date	S
Thomas R. Lee/Dean		
Typed Name/Title		Γ
DocuSigned by:		
Thomas Q Lee	5/21/2015	
Signatu 5206 EBAD4F7F42B	Date	
Thomas R. Lee/Dean		
Typed Name/Title		
Comments:		

Signature Approving VPR Cost Share

Date

Certification for Nonprofit Entity Grant Contracts

Υ	Ν	
X		Did you receive more than 50% of your funds from federal, state, and local government entities in your previous fiscal year?
X		Do you anticipate receiving more than 50% of your funds from federal, state, and local government entities in the fiscal year in which the grant for which you have applied will be issued?
X		Did you receive more than \$500,000 from state entities in the previous fiscal year?
X		Do you anticipate receiving more than \$500,000 from state entities in the fiscal year in which the grant for which you have applied will be issued?
		If you have answered YES to any one of the preceding four questions, you must certify compliance with each of the following requirements by initialing below.
Yes		You acknowledge that DWS may notify the State Auditor you have answered yes to one or more questions on this form.
Yes		You agree to comply with the requirements of Utah Code Title 63J, Chapter 9, Nonprofit Entity Receipt of State Money Act.
Yes		You acknowledge and agree you may be required to return to the state any money expended in violation of the Nonprofit Entity Receipt of State Money Act.
Yes		You agree to provide an annual report detailing the expenditure of state grant funds you receive.
Yes		You certify you have, at the time of receipt of state grant money, adopted bylaws (as "bylaws" are defined in Section 63J-9-102) that provide for the financial oversight of state money and compliance with state laws related to state money.
Yes		You certify you have, at the time of receipt of state grant money, procedures for the governing board of the nonprofit entity to designate an administrator who manages state money, and procedures for the governing board to dismiss the administrator who manages state money.
		What is the name and contact information (address, phone number, and email) of the administrator who manages state money?
		Utob State University Controller's Office, 1445 Old Main Uill, Leson, UT, 24222, 1445
		(435) /9/-1146 dave.cowley@usu.edu

Signed by:

DocuSigned by:

5/19/2015

BRIDGERLAND APPLIED TECHNOLOGY COLLEGE

May 18, 2015 Utah Cluster Accelerated Partnership Grant BATC/USU Partnership – Composites Manufacturing

To Whom It May Concern,

The purpose of this letter is to document Bridgerland Applied Technology College (BATC) and my support for the Automated Manufacturing and Robotics Composites Emphasis program expansion to the Brigham City Campus. BATC has a long support history of providing training for local business and industry and our students in the automated manufacturing field. Last year with the help of UCAP funds, BATC was able to expand and develop industrial robotics into the Brigham City Campus. The expansion of this program was needed to meet the needs of industry. Autoliv is a major employer in the region with facilities in Brigham City and Tremonton and because of demand is requesting that we further develop the robotics and composites training in the BATC Brigham City campus.

Last year BATC in the new Logan robotics facility trained and certified 199 people in Industry recognized certifications in robotics and composites.

BATC is partnered last year with Utah State University to develop and build a new 1200 sq. ft. robotics lab in the USU/BATC Brigham City Campus. This year we are partnering to develop a new composites lab. This grant request is to help add equipment to this new composites area. With limited state program expansion funds we have hired a full time instructor and purchased basic robotics and automated manufacturing equipment to get things started.

This grant opportunity is very important to BATC and USU to purchase additional equipment and hire additional instructors to help with this training; it gives the opportunity to continue to expand training in these new areas. We have local industry need for training and their support for these new certificates and with the help of additional funding we will be able to increase the amount of students trained and receiving certificates to help meet the goals of the state.

I want to thank you for making this grant opportunity available and let you know that any grant funds received will be used to leverage additional funds to expand the effectiveness of the training at BATC in automated manufacturing and robotics with a composites emphasis. We look forward to working with you if we are awarded this grant opportunity.

Sincerely,

Dr. Richard L. Maughan President Bridgerland Applied Technology College



Box Elder

School District Dr. Ron Tolman, Superintendent BOARD OF EDUCATION Connie Archibald Lynn Capener Karen Cronm Wade Hyde Carrie Ann Johnson Nancy Kennedy Bryan Smith

May 13, 2015

Reference: Request for Proposal (RFP) Utah Cluster Partnership Grant Proposal Utah State University and Bridgerland Applied Technology College Composites Training Facility in Brigham City Equipment

To whom it may concern,

We are in complete support of the application that is being made by Utah State University and Bridgerland Applied Technology College for funding through the Utah Cluster Partnership Grant to bring composites training to our area and students. We have firsthand knowledge of the power that such collaborative efforts have for the education and the advancement of the economy of our local communities.

We are excited about the prospects of our students having access to composites technology and instruction. The credentials and training they will receive with greatly enhance their ability to begin their careers or be prepared for advanced studies. We are prepared to support this initiative to the fullest of our capabilities.

Our past partnerships with these two great Northern Utah institutions has been fruitful and very amicable. We look forward to this and future opportunities to partner and collaborate, all in an effort to strengthen our local communities.

Sincerely,

Dr. Ronald Tolman, Superintendent, Box Elder School District

Karenfinin

Karen Cronin, Member, Box Elder School District Board of Education

Hanne M. Edelings

Darrell Eddington, Director, Box Elder School District Career and Technical Education

O. Jay & Tamra Call Education Center

"Learning is Everything"



Hill AFB Need for Composites Technicians - Please Consider When Evaluating UCAP Proposals

1 message

PETERS, JOYCE A GS-13 USAF AFMC AFSC/ENRW OL-HIII

Thu, May 7, 2015 at 4:23 PM

<joyce.peters@us.af.mil>

To: "mstark@utah.gov" <mstark@utah.gov>

Cc: "tgoetz@utah.gov" <tgoetz@utah.gov>, Edwin Frederick <tfrederick@utah.gov>, "NOWLIN, SCOTT R Col USAF AFMC AFSC/EN OL-Hill" <scott.nowlin@us.af.mil>, "DIAMOND, JAMES L JR GS-15 USAF AFMC OO-ALC/EN" <james.diamond@us.af.mil>, Ginger Chinn <ginger.chinn@datc.edu>, "dferro@weber.edu" <dferro@weber.edu>, "jdavidson@batc.edu" <jdavidson@batc.edu>, "drogers@utah.gov" <drogers@utah.gov>, "Debbie Sparks (debbiesparks@utah.gov)" <debbiesparks@utah.gov>, "mzundel@boxeldercounty.org" <mzundel@boxeldercounty.org>, "benhart@utah.gov" <benhart@utah.gov>, "dslarsen@co.weber.ut.us" <dslarsen@co.weber.ut.us>, "meldred@daviscountyutah.gov" <meldred@daviscountyutah.gov>, "plarsen@brighamcity.utah.gov" <plarsen@brighamcity.utah.gov>, "CRISMON, CRIS J GS-14 USAF AFMC OO-ALC/OBM" <cris.crismon@us.af.mil>, "WOODARD, KENNETH L CIV USAF AFMC OO-ALC/OBH" <kenneth.woodard@us.af.mil>

REMINDER: Hill AFB does not directly support or non-support legislative topics or budget requests. We are only able to clarify our requirements so that industry colleagues, universities and state/local government offices can determine how our needs and priorities will impact them.

Melisa,

On behalf of Hill AFB, I would like to clarify our requirements for composites technicians and ask that this need be considered when evaluating Utah Cluster Acceleration Partnership (UCAP) grants for public post-secondary educational institutions. While Hill AFB cannot show preference for any particular academic institution, particularly in situations where they compete with one another for resources, we would like to express our encouragement to those schools that are focused on increasing the pipeline of credentialed graduates for the advanced composites industry.

Please let me know if you need a more formal or detailed declaration of our requirements.

Attached:

 Hill AFB Hiring Demands through 2019.
Hiring Statistics for STEM occupations at Hill AFB in last 5 years (federal fiscal year begins 1 October).
Sanitized version of email sent to local civic leaders in response to a request for information on hiring demand for technicians.

Joyce Peters AFSC/ENRW OL-Hill Workforce Strategic Planning & Partnerships Air Force Sustainment Center Engineering & Technical Mgt Directorate Hill Air Force Base, Utah Cell: (801) 540-1368 joyce.peters@us.af.mil



June 25, 2014

Reference: Request For Proposal (RFP) Utah Cluster Partnership Grant Proposal Bridgerland Applied Technology College, Logan, UT Automated Manufacturing, Robotics and Composites

To whom it may concern,

The purpose of this letter is to document my support for the above described application submitted for funds through the Utah Cluster Partnership Grant. Utah State University and Bridgerland ATC have an excellent history of training and providing support to local business in Northern Utah.

ATK has partnered with these efforts in the following ways:

As a member of the Composites Program Advisory Board

I am very impressed with Bridgerland ATC and look forward to seeing the grant money used to further equip and provide training in the composites, automated manufacturing, and robotics areas.

I look forward to using these resources by possibly hiring students or having employees trained in these areas to help my company be more productive and profitable

Sincerely,

Supportancel Mande

Mandy Christiansen

ATK Recruiter / HR Generalist PH: 801.775.1136 Email: mandy.christiansen@atk.com



ECONOMIC DEVELOPMENT

Mitch Zundel Director COUNTY OFFICIALS Stan Summers, COMMISSIONER Jeff Scott, COMMISSIONER Jeff Hadfield, COMMISSIONER Rodney D. Bennett, ASSESSOR Stephen R. Hadfield, ATTORNEY Tom Kotter, AUDITOR Maria R. Young, CLERK Kevin R. Christensen, JUSTICE COURT JUDGE Chad Montgomery, RECORDER J. Lynn Yeates, SHERIFF Shaun Thornley, TREASURER

May 6, 2015

Reference: Request for Proposal (RFP) Utah Cluster Partnership Grant Proposal Utah State University and Bridgerland Applied Technology College Equipment for Composites Training Facility in Brigham City

To whom it may concern,

The purpose of this letter is to document my support for the above described application submitted for funds through the Utah Cluster Partnership Grant. Utah State University Brigham City Campus (USU-BC) and Bridgerland Applied Technology College (BATC) have an excellent history of training and supporting local business in northern Utah.

Box Elder County has partnered with this request by continuing the Unmanned Aerial Systems program started in 2014 with funds and support from UCAP and local industry, specifically Orbital ATK Promontory, among others. Partnering with Composites and Aerospace of Northern Utah (CANU), we seek to continue attracting companies with high-paying jobs in these industries to northern Utah.

The success of our marketing efforts hinges on the promise to deliver a workforce of individuals trained and skilled in composites. Hill Air Force Base has recently reached out to us through CANU expressing their current and future interest and need for trained individuals within this cluster.

I'm very impressed with the efforts of USU-BC and BATC to forge this needed bond for the future of our workforce within this region. I look forward to seeing the grant money effectively used to purchase the vital equipment that will provide the needed access and training to further the industry's growth.

Feel free to contact me with any questions.

Sincerely,

Mitch Zundel Economic Development Director Box Elder County

Jones Enterprises Utah, LLC



"Bringing shape to your ideas"

DATE: May 20, 2015

271 S. 200 W. Wellsville, Utah 84339 Phone: 435-770-5066

Memo To: BATC Advisory Committee / USU / Utah Legislature. Reference: Request for Proposal (RFP) / Utah Cluster Partnership Grant Proposal Utah State University and Bridgerland Applied Technology College **Composites Training Facility in Brigham City Equipment**

The purpose of this letter is to document my support for the above described application submitted for funds through the Utah Cluster Partnership Grant. Utah State University Brigham Campus and Bridgerland ATC have an excellent history of training and providing support to local business in Northern Utah

Having an Advanced Composites course offered through the BATC would be great for our business. We have an existing Fiberglass company here in Cache valley. We build Rock Climbing Walls as well as many verities of Roller Coaster Bodies. We are also building replacement Log Boats as well as many other projects. We currently have 6 employees a lot of them are new to composites and we are teaching them in house. It would help us a lot if we could hire people with some training and some hands on experiences.

Jones Enterprises Utah, LLC) is in the process of partnering with BATC in the following ways Donate Surplus Materials, Surplus Equipment, Possible Training Opportunities, Etc...

Bottom Line, This course would be great to have in the valley and it would train people for good jobs.

I personally have been designing and building roller coasters and other amusement rides for 35 years Myself and Ron Dreager co-ran the R&D Department for Arrow Dynamics in Clearfield for years and years. Back then we trained everyone including newly hired Engineers. Those were great times. Currently my wife and I own and operate a growing fiberglass company here in Hyrum Utah. We would benefit greatly from such a program.

Thank Your for Your Time and Consideration concerning this project. (Very Exciting Stuff)

Roy Jones: owner

Jones Enterprises Utah, LLC 435-770-5066

25 5/20/2015

If you have any questions concerning this memo, contact Roy Jones, 435-770-5066, roy@webmail66.com

THANK YOU FOR THIS OPPORTUNITY TO SERVE YOUR COMPOSITE NEEDS



May 19, 2015

Reference:Request for Proposal (RFP)Utah Cluster Partnership Grant ProposalUtah State University and Bridgerland Applied Technology CollegeComposites Training Facility in Brigham City Equipment

To whom it may concern,

The purpose of this letter is to document my support for the above described application submitted for funds through the Utah Cluster Partnership Grant. Utah State University Brigham Campus and Bridgerland ATC have an excellent history of training and providing support to local business in Northern Utah. This training and support is essential to our region's efforts to expand our composites manufacturing cluster which provides high quality, high paying jobs.

Brigham City has partnered with these efforts by supporting development and expansion of the USU Brigham City Regional Campus through tax increment financing. I am very impressed with Utah State University and Bridgerland ATC and look forward to seeing the grant money used to further equip and provide training in the composites areas that are needed in northern Utah.

I look forward to using these resources by possibly hiring students or having employees trained in these areas to help my company be more productive and profitable.

Sincerely,

Paul Larsen Brigham City Economic Development Director