

2021-2022 CTE Perkins Reserve

Competitive Grant Application: Due 11:59 p.m. CT, April 27, 2021

NOGA ID			Appli	cation stamp	o-in date and time
TEA will only accept grant application documents amendments. Submit grant appli	-		ons and		
Competitive grant applications and amer	ndments to con	npetitivegrants@tea.texas.gov			
Authorizing legislation: Carl D. Perkins	Career and T	echnical Education Act of	2006, P.L. 109-270), Title I, F	Part A, §112(c)
Grant period: From 07/01/2021 to 08/31	The state of the s	Pre-award costs:			
Required attachments: Refer to the pro	gram guide	lines for a description of	any required atta	achment	s. 7) 3(7) 4(1)
Focus Area Selection	Jeses		Education and S		
☐ Focus Area 2		No.			
Amendment Number				6,50	
Amendment number (For amendments or	nly; enter N	/A when completing this	form to apply for	grant fu	nds):
1. Applicant Information		Franklinik -			
Name of organization Bryan ISD					
Campus name CTEC	CDN	021902 Vendor ID 1746	60004397 ESC	DUN	S 073919615
Address 801 S. Ennis Street		City Bryan	ZIP 77803	Phone	979-209-1000
Primary Contact David Reynolds	Email	david.reynolds@bryanis	d.org	Phone	979-209-1475
Secondary Contact Luann Argersinger	Email	luann.argersinger@brya	nisd.org	Phone	979-209-1478
2. Certification and Incorporation	W . S.		H PANENT	DE L	
I understand that this application constitut a binding agreement. I hereby certify that correct and that the organization named a legally binding contractual agreement. I accordance and compliance with all applic I further certify my acceptance of the requapplicable, and that these documents are Grant Award (NOGA): Grant application, guidelines, and instances Application-Specific Provisions and A	the information in the information in the information in the incorporate incorporate incorporate	tion contained in this apputhorized me as its represany ensuing program and all and state laws and regenoveyed in the following process.	olication is, to the esentative to oblique discriptions. Dortions of the grant application Cession Cession	e best of gate this conducte ant appli ation and ertification	my knowledge, organization in ed in ication, as d Notice of
Authorized Official Name David Reynolds	Title	Director, CTE Email	david.reynolds@	bryanisd	.org
Phone 979-209-1475 Signature 5	Ent	grigg.		Date	4/20/21
Grant Writer Name Luann Argersinger	Signature		a	Date	110 1000
© Grant writer is an employee of the applican	it organizatio	n. Grant writer is not	t an employee of the	ne applica	ant organization.
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3. Shared Services Arrangements	
Shared services arrangements (SSAs) are per	
enter into a written SSA agreement descr	on is the fiscal agent of a planned SSA. All participating agencies will ibing the fiscal agent and SSA member responsibilities. All participants angement Attachment" must be completed and signed by all SSA
4. Identify/Address Needs	
List up to three quantifiable needs, as identified Describe your plan for addressing each need.	d in your needs assessment, that these program funds will address.
Quantifiable Need	Plan for Addressing Need
Per CLNA and LMI data for BV, Health Science career fields remain a high wage/high needs/high interest area. In BV, the need for laboratory Technicians is expected to growth by 18%.	provide a Regional training program that infuses core academics with technical skills found in Health Science programs; increasing opportunities fro entrance into high wage/high skill careers across several school districts and communities
Success in a laboratory environment requires experience with advanced lab equipment, processes, and procedures, as well as a broad understanding of scientific and medical terminology	design a seamless pathway beginning in high school that incorporates academic and technical skills that will enable students to earn dual credit from a partnering IHE in areas that will enhance laboratory skills, both observational and analytical
Industries relocating to the BV area require technicians with high skills that can report as well as analyze results; projected to add 50 new jobs in next 5 years plus a replacement rate of 22 jobs per year	work with industry partners to identify levels of skills by job requirements; introduce opportunities to intern or shadow at companies; scaffold students into work-based learning environments to refine necessary skills for the jobs that need to be filled
5. SMART Goal	
	re identified for this program (a goal that is Specific, Measurable, led to student outcome or consistent with the purpose of the grant.
year for current needs. With the influx of biotec in the global need for biologic / biotechnology laboratory technicians is projected to increase which will age out or leave the industry annual	laboratory technicians will require at least 30 qualified applicants per chnology based industries into the Biotech Corridor, along with the rise laboratory technicians due to COVID, the need for highly skilled to an annual employment of 370 workers, approximately 10% of ly. Thus, a need to new workers each year to provide the required BV ning program is to produce at least 20 highly skilled, highly qualified
6. Measurable Progress	
	end of the first three grant quarters to measure progress toward defined for the grant.
In this planning year, our first quarter (July -Se intermediary who will become equipped to wor multiple LEA decision makers, IHE partner decision	ept) benchmark will be a targeted focus on hiring and acclimating an rk with a cross-sector stakeholder group of business representatives, cision makers, Workforce partners, community members, parents and implementation of program parts. Our measures of success will be: a udy parts and plans.
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6. Measurable Progress (Cont.)	
Second-Quarter Benchmark	
stakeholders of curriculum needs, AAS diploma need By the end of the 2nd quarter, the following will be co State CTE Program of Study will be identified; curricu	ocus on forming the stakeholder group and and informing the ds, HS graduation and certification needs, and marketing needs. In process, and marketing needs. In process, and marketing needs. In process, and marketing details clusion in the next year course guide.
associated with the new program of study will be recr teachers will be selected/designated according to IHE or AP/IB credit are in the master schedule and staffed	ertising and recruitment: students with interests in careers ruited and preassigned for courses in the following year, E guidelines, academic courses that qualify for Dual credit and/d as appropriate, all stakeholders are promoting the new of 5 high schools, leaving room for growth to 20 at each
7. Project Evaluation and Modification	
	determine when and how to modify your program. If your w progress, describe how you will use evaluation data to
minimum number of 20 enrolling in the level I course; schools enrolling, thus allowing for change in student	d laboratory technicians, preregistration data needs to show a we will continue to target at least 10 students at each of 5 interest through the high school years. If the target number of a information did not reach all populations. That will necessitate

a reworking of marketing efforts, including any print or broadcast information used in marketing the new program.

Once the program of study is activated, students will continue to receive workforce data demonstrating the need for

Using career interest survey data helps us plan for growth in programs. Interest survey data, coupled with data from 4 year plans, allows us to increase the number of available scheduling spaces. Furthermore, 4 year plan transcript data, coupled with Dual Credit grade data and AP scores data, will help us refine any curriculum issues that arise.

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technicians, as well as information on utilizing Dual Credit as a means of streamlining their skills and degree acquisition. Continual monitoring and reinforcement of the 4 year plan, coupled with the opportunity to shadow a professional in the industry or intern for a summer will encourage interested students to stay the course. As our intermediary identifies WBL opportunities, our students will become more knowledgeable about the career opportunities available, as well as learn about advanced degrees that will enhance their growth in the field.

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8. Statutory/Program Assura		
The following assurances apply to must comply with these assurances		In order to meet the requirements of the grant, the grantee
Check each of the following boxe	es to indicate your con	npliance.
supplant (replace) state mand or local funds. The applicant pother purposes merely because services and activities to be fundamental to the supplemental supplemental to the supplemental s	lates, State Board of E provides assurance the se of the availability of unded from this grant v	unds will supplement (increase the level of service), and not Education rules, and activities previously conducted with state at state or local funds may not be decreased or diverted for these funds. The applicant provides assurance that program will be supplementary to existing services and activities and will y state law, State Board of Education rules, or local policy.
2. The applicant provides ass by the Family Educational Rig	urance that the applicately has and Privacy Act (F	ation does not contain any information that would be protected FERPA) from general release to the public.
	Program Guidelines, an	e Statutory and TEA Program requirements as noted in the d to adhere to the 2021-2022 CTE Perkins Reserve Formula Grant,
		Performance Measures, as noted in the 2021-2022 CTE Perkins upon request, any performance data necessary to assess the
5. The applicant assures that any with the State of Texas Accessib standards, and the WCAG 2.0 A/	y Electronic Information vility requirements as sp A Accessibility Guideling	n Resources (EIR) produced as part of this agreement will comply ecified in 1 TAC 206, 1 TAC Chapter 213, Federal Section 508 es.
6. The applicant provides assure ☑ programs of study including high		ill be appropriately aligned to regional labor market supported CTE as of study where applicable.
relationship between the institution the grant start date. The MOU wimplementation of a coherent p	ite of higher education, vill establish joint decision program across the insti	nit a Memorandum of Understanding (MOU) detailing the the LEA, and business and industry partner(s) within 90 days of on-making procedures that allow for planning and tutions. The partnership and the MOU must include provisions and t data to assess the progress of the students.

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9. Progran	n Requiremen	nts	
grant funds are the goa	. What pathwa	y will be develope	Provide an overview of the program to be planned and designed with a dand how will each stakeholder support the pathway planning? What d how does a regional pathways approach benefit your community and n?
IHE partner promote the available exhaving a le	r's AAS degree e development ach year in the ast 20 complete or the partners students a char	program in Bioted of the skills and tr Brazos Valley. By ers each year incre hips (IHE, LEA, In nce to hear about t	ndustry, Workforce) remain constant: the multiple career opportunities available to them
 provide and off-ram provide requiremen 	opportunities for careers a site where motes among seve	or advanced acade and education ultiple school distr	eathway to reach their career interests emics and skilled technical classes to be enmeshed to foster on-ramps ricts can meet together in a regional training facility to spread the cost lecreasing the need for duplication in every school district he Brazos Valley
What pathw stakeholder	vay will be implors previously co d how does a r	emented and how ontributed to pathw	rovide an overview of the program to be implemented with grant funds. will each stakeholder support the pathway? In the past, how have ways development in the region? What are the goals of developing this approach benefit your community and workforce development efforts in
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9. Program Requirements (Cont.)

3. Program of Study (Focus Areas 1 and 2): The applicant must identify — in partnership with all LEAs included in the application, a public institution of higher education, employer partners, and local workforce development board, economic development agency, and/or chamber of commerce -- high-wage and in-demand occupations and TEA approved statewide or regionally approved CTE programs of study that lead to these occupations. Regional labor market information must be included in the application demonstrating how the CTE programs of study were identified. Applicants may use LWDA Labor Market information and resources from TEA to demonstrate labor market alignment. Identify the strategy behind this program of study and what the intended education and career outcomes are.

Within the Brazos Valley, the need for skilled laboratory technicians hits across several job clusters, thus several programs of study. LMI date from TEA for the BV Development Area shows that AFNR jobs, Health Science jobs, and STEM jobs all required trained laboratory workers. While job names may differ, required technical skills do not.

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage 2018	Growth Wage Category	Annual Average Employment 2016	Annual Average Employment 2026	Total Annual Openings	Competitive Education Requirement
Science, Technology, Engineering &	Biomedical Science	19-4031	Chemical Technicians	180	939min	нібн/нібн	60	71	7	Associate's degree
Mathematics Health Science	Healthcare Diagnostics	29-2012	Medical and Clinical Laboratory	180		HIGH /REDACTED	72	85	5	Associate's degree
Agriculture, Food, and Natural Resources	Environmental and Natural Resources	19-4091	Environmental Science and Protection Technicians, including	bin.	\$39.703	нібн/нібн	71	83	10	Associate's degree
Agriculture, Food, and Natural	Animal Science	19-1029	Biological Scientists, All Other	(04)	35) 301-	нібн/нібн	115	131	12	Bachelor's degree

Data Sources.

Occupational projection and wage data was from obtained from TexasWages com (Downloaded: November 5, 2019)

Competitive Education Requirement data provided to TEA by R.C. Froeschle Consulting, as used in development of statewide program of study list

Notes. Under 'Growth Wage Category,' cells are highlighted; green when value met or exceeded the region median value ('HIGH'); yellow when value did not meet the

Data are sorted from high growth/high wage to low growth/low wage, by career clusters, weighted by growth rate. Occupations with redacted median wages are at the

Some occupations may belong to more than one program of study or career cluster. Cells are blank if the occupation did not have a program of study identified within the

Refer to the Texas Comprehensive Local Needs Assessment Guidebook for more information about how to use these data.

4. Intermediary Capacity (Focus Area 1): The applicant must describe how they will build the capacity of the designated intermediary organization to carry out the functions related to this role, including -but not limited toconvening cross-sector stakeholders, supporting regional education and workforce development initiatives, working with educators and employers to create work-based learning experiences and place students in them, and collecting data to evaluate program outcomes and plan for continuous improvement. Describe the intermediary partner's plan to increase capacity during the planning year and the plan to provide adequate staff capacity to this grant.

The intermediary will be expected to connect with industries to find WBL opportunities and to identify required skills for workforce success. The intermediary will also need to work with the various persons within the LEAs and the IHE to ensure that all are informed of the academic and technical skills being sought, and to facilitate the identifying and mapping of curriculum to ensure that required academic and technical skills are included as part of the course sequence in the program of study. The intermediary will be responsible for gathering cross-sector stakeholders for shared program planning and promotion. As programs are planned, tweaks and refinements may be necessary to ensure that the end goals are reached - WBL opportunities for every student, meaningful certification earned, employment within the career field, and a sustaining wage earned at the jobs earmarked within the program. By capitalizing on the intermediary's positive relationships with stakeholder partners and the knowledge gained during convenings, teachers will be able to utilize their time on consciously planning lessons, expenditures, and activities that will meet industry and certification needs. This efficiency will allow teachers more time on task to actually teach their craft. The intermediary is conversant in 3 main sectors - what industries needs in terms of skills, what the IHE/ LEAs can deliver in terms of academics and technical skills, and what the community needs in terms of workforce. The intermediary will use that knowledge to build programs that inspire and interest students, as well as meets the needs of the greater community.

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9. Program Requirements (Cont.)

5. Intermediary Capacity_(Focus Area 2): The applicant must describe the capacity of the designated intermediary
organization to carry out the functions related to this role, including -but not limited to -convening cross-sector stakeholders,
supporting regional education and workforce development initiatives, working with educators and employers to create work-
based learning experiences and place students in them, and collecting data to evaluate program outcomes and plan for
continuous improvement. Describe the intermediary partner's existing capacity and plan to provide adequate staff capacity to
this grant.

6. Crosswalk (Focus Areas 1 and 2): The applicant must provide, for all pathways a crosswalk that identifies secondary and postsecondary coursework that would be required of a student in the program of study to complete a certificate, at a minimum, or receive an associate degree from the partnering general academic teaching institution(s) within two-years of graduating from high school. The crosswalk should align to the higher education program of study curricula where applicable and demonstrate how the program of study can lead to a post-secondary certification and credentials, up to and including, a bachelor's degree or beyond. For Focus Area 1 applicants, this crosswalk should demonstrate a sample or proposed crosswalk of the pathway that will be developed. For Focus Area 2 applications, this crosswalk should be a likely sequence of courses based on prior planning.

Course	HS year 1	HS year 2	HS year 3	HS year 4	AAS year 1	AAS year 2
English 1 Academic Reqs. PreAP Geom & PreAP Biol W Geog. LOTE 1 Prof Comm PE	English 2	English 3	English 4 or ENGL 1301 & ENGL 1302	ENGL 1301	1 Academic Core: 1 in Lang/Phil/Culture or 1 in Creative Arts	
	PAP Alg II &	PAP Pre-Cal & AP Biol or AP Chem or AP Physic	AP Statistics & AP Biol or AP Chem or AP Physics or H Med Micro	CHEM 1411 BIOL 1406 BIOL 2420 MATH 2420		
	W History LOTE 2 Fine Arts	US History or HIST 1301 & HIST 1302	Govt & Econ or GOVT 2305 & ECON 2301	ITSW	1 Academic Core in SS (HIST 1031) or in Behavioral Science (ECON 2301)	
Technical	PLTW Principles of Biomedical Science	PLTW Human Body Systems	Practicum in STEM using PLTW Medical Interventions	Practicum in STEM using PLTW Biomedical Innovation	BITC 1191 BITC 1411	BITC 2411 BITC 2377 BITC 2431 BITC 1403
Reqs.	BIM I (earn Word cert) al Dual credits to	BIM II (earn ExCel cert)			BITC 1302 BITC 1340	BITC 2386 BITC 2475

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9. Program Requirements (Cont.) 7. Strategic Partnerships (Eocus Areas 1 and 2); Identify regional partnerships and/or initiatives that are aligned to Tri-Agency efforts and are already in place that provide an advantage in developing (focus area 1) or implementing (focus area 2) the proposed pathway(s). Describe how these specific partnerships and/or initiatives will be utilized to strengthen the foundation of their proposed cross-sector work, which is paramount for a regional pathways approach. With a Tier 1 research land-grant university and an affiliated partnership of universities and colleges who offer a variety of workforce training opportunities from Level 1 certifications through BAAS degree programs, Brazos Valley is ripe with opportunity for the training and placing of workers. Because of the partnerships afready formed and operating among the IHEs, LEAs, Workforce Development Board, and the Economic Development Board, the BV has experienced an increased growth in biotechnology related companies toologing to develop within drivable access to RELLIS, Texas A&M University, TEEX services, Texas Agrilife, and the Biomedical Corridor (a certified Opportunity Zone in South Brazos County that enables companies to build research and/or manufacturing facilities that capitalize on the skills and educational opportunities of the surrounding population). All of these new companies will be seeking enth-level workers, as well as multi-level mid-management workers. Bryan ISD will be working with our partner LEAs, as well as our IHEs, workforce team, and industry partners to bring forth a program of study that will enable a students to enter a high demand job that will earn high wages, as well as provide multiple academic opportunities for professional growth. 8. Budget Narrative (Focus Areas 1 and 2): Describe how the proposed budget will meet the needs and goals of the program —for staffing, supplies and materials, contracts, travel, etc. —in particular, how will funds increase intermediary capacity? If applicab					
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	ble Access and				
	ppropriate box bel receive services fu			er any barriers exist to equitable access and partic	ipation for any
The a	pplicant assures th	nat no barriers		equitable access and participation for any groups	s receiving
	es funded by this q rs exist to equitabl		participa	ation for the following groups receiving services for	unded by this
	as described belo				
Group	d		Barrier		
Group			Barrier		
Group			Barrier		
Group	•		Barrier		
11. PNP Ed	quitable Service	S			
•	·	ols located wit	hin the a	applicant's boundaries?	
	es (No				
If you answe page.	ered "No" to the pr	eceding quest	ion, stop	o here. You have completed the section. Proceed	to the next
Are any priva	ate nonprofit scho	ols participatin	g in the	grant?	
	es (No	naadina ayaat	ion oton	n hara. Vau have completed the costion. Dropped	to the next
page.		eceaing quest	ion, stop	o here. You have completed the section. Proceed	to the next
Assurance		Part Active	2		
[∐] Section The L	on 8501(c)(1), as a EA assures the ap	applicable, with opropriate Affir	ı all eligi	ation requirements as listed in Section 1117(b)(1) ible private nonprofit schools located within the Lis of Consultation will be provided to TEA's PNP O	EA's boundaries.
	anner and time red Services Calcul		ANTHOSEH,	COLDINARY WAS A COLD OF COLD O	100110000000000000000000000000000000000
-	dent enrollment	ation	s=111 1 No		LOTING SECTION OF THE PROPERTY.
	nt of all participatin	g private scho	ols		
		•		s (line 1 plus line 2)	
	ent-year grant allo		J		
5. LEA resei	rvation for direct a	dministrative o	osts, no	ot to exceed the grant's defined limit	
6. Total LEA	amount for provis	sion of ESSA F	PNP equ	uitable services (line 4 minus line 5)	
7. Per-pupil	LEA amount for p	rovision of ES	SA PNP	equitable services (line 6 divided by line 3)	
	LEA's total re	equired ESSA	PNP e	quitable services reservation (line 7 times line	2)
		1 2 2.2.37		·	'
For TEA Use	•				
RFA/SAS #	n this page have bee	-		by of TEA by phone / fax / email 2021-2022 CTE Perkins Reserve	on Page 10 of 12
1/1 A/3A/3 #	101-21-112/424-22		1000	ZUZ 1-ZUZZ G I E PEIKIIIS KESEIVE	rage 10 01 12

CDN 021902 Vendor ID 17460004397	Amendment #
2. Request for Grant Funds	
ist all of the allowable grant-related activities for which you are requestin udgeted for each activity. Group similar activities and costs together und egotiation, you will be required to budget your planned expenditures on a ayroll Costs	ler the appropriate heading. During
. Intermediary	\$125,000
Familie 70 tree 11800 to 100	
ofessional and Contracted Services	
Marketing/graphics designer professional	\$12,500
Printing and marketing costs	\$20,000
Rentals for meeting space	\$5,000
0.	
upplies and Materials	
supplies for meetings	\$7,500
2. supplies for promotional and marketing materials	\$10,000
3.	
1.	
ther Operating Costs	
travel expenses to/from required meetings for partners & intermediary	\$12,000
S. intermediary travel	\$8,000
7.	
apital Outlay	Application to the second of the second
3.	
0.	
0.	
Direct and inc	direct administrative costs:
TOTAL GRAN	T AWARD REQUESTED: \$200,00
or TEA Use Only: djustments on this page have been confirmed with by	of TEA by phone / fax / email on
FA/SAS # 701-21-112/424-22 2021-2022 CTE Perk	

CDN 021902 Vendor ID 17460004397	Amendment #						
Appendix I: Negotiation and Amendmen	nts						
Leave this section blank when completing th	e initial application for funding.						
An amendment must be submitted when the program plan or budget is altered for the reasons described in the "When to Amend the Application" document posted on the <u>Administering a Grant</u> page of the TEA website and may be emailed to <u>competitivegrants@tea.texas.gov</u> Include all sections pertinent to the amendment (including budget attachments), along with a completed and signed copy of page 1 of the application. More detailed amendment instructions can be found on the last page of the budget template.							
1	You may duplicate this page.						
For amendments, choose the section you wish to amend from the drop down menu on the left. In the text box on the right, describe the changes you are making and the reason for them. Always work with the most recent negotiated or amended application. If you are requesting a revised budget, please include the budget attachments with your amendment.							
Section Being Negotiated or Amended	Negotiated Change or Amendment						
	*						
Tr.							

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Adjustments on this page have been confirmed with

of TEA by phone / fax / email on