2022-2024 Advanced Placement (AP) Computer Scier Letter of Interest (LOI) Application Due 11:59 p.m. CT, July			
Texas Education Agency NOGA ID			
Authorizing legislation General Appropriations Act, Article III, Rider 86, 870	th Texas Legislature		
This LOI application must be submitted via email to competitivegrants@tea.texas.gov.	Application stamp-in date and time		
The LOI application may be signed with a digital ID or it may be signed by hand. Both forms of signature are acceptable.			
TEA must receive the application by 11:59 p.m. CT, July 12, 2022.			
Grant period from August 31, 2022 to April 30, 2024			
Pre-award costs are not permitted for this grant.			
Required Attachments			
1. Excel workbook with the grant's budget schedules (linked along with this form on the TEA	A Grants Opportunities page)		
Amendment Number			
Amendment number (For amendments only; enter N/A when completing this form to app	ly for grant funds):		
Applicant Information			
Organization Mercedes ISD CDN 108907 Campus Mercedes H	IS ESC 1 UEI # 08954337		
Address 206 West 6th Street City Mercedes ZIP 789	570 Vendor ID 1746001718		
Primary Contact Deborah Rabel Email deborah.rabel@misdtx.net	Phone 956-514-2100		
Secondary Contact Ricardo Hinojosa Email ricardo.hinojosa@misdtx.net	Phone 956-514-2100		
Certification and Incorporation			
I understand that this application constitutes an offer and, if accepted by TEA or renegotiated to acceptance, will form a binding agreement. I hereby certify that the information contained in this application is, to the best of my knowledge, correct and that the organization named above has authorized me as its representative to obligate this organization in a legally binding contractual agreement. I certify that any ensuing program and activity will be conducted in accordance and compliance with all applicable federal and state laws and regulations.			
I further certify my acceptance of the requirements conveyed in the following portions of t and that these documents are incorporated by reference as part of the LOI application and	he LOI application, as applicable, Notice of Grant Award (NOGA):		
E	nd Suspension Certification		
☐ General and application-specific Provisions and Assurances ☐ Lobbying Cer	rtification		
Authorized Official Name Dr. Richard Rivera Title Interim S	uperintendent		
Email RICHARD.RIVERA@misdtx.net Phone	956-514-2022		
Signature Sin Vave	Date 7-12-2022		
RFA # 701-22-112 SAS # 631-22 2022-2024 Advanced Placement (AP) Computer Science	Principles (CSP) Grant Page 1 of 9		

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Shared Services Arrangements

Shared services arrangements (SSAs) are **not** permitted for this grant.

Statutory/Program Assurances

The following assurances apply to this program. In order to meet the requirements of the program, the applicant must comply with these assurances.

Check each of the following boxes to indicate your compliance.

- 1. The applicant provides assurance that the application does not contain any information that would be protected by the Family Educational Rights and Privacy Act (FERPA) from general release to the public.
- 2. The applicant provides assurance to adhere to all the Statutory and TEA Program requirements as noted in the 2022-2024 Advanced Placement (AP) Computer Science Principles (CSP) Grant Program Guidelines.
- 3. The applicant provides assurance to adhere to all the Performance Measures, as noted in the 2022-2024 Advanced Placement (AP) Computer Science Principles (CSP) Grant Program Guidelines, and shall provide to TEA, upon request, any performance data necessary to assess the success of the program.
- 🔀 4. The applicant will include AP CSP as part of the course catalog for the 2023-2024 school year by December 2022 and will go through the necessary district policies to obtain school board approval.
- 5. The applicant will identify, recruit, and onboard qualified teachers to receive professional development training and become certified to teach an AP CSP course.
- (iii) 6. The applicant will identify and select a professional development provider.
- ☑ 7. The applicant will promote the AP CSP course offering to all students.
- 8. The applicant will provide support necessary to ensure students successfully pass the AP CSP course.
- 2 9. The applicant will provide a way for students to take the AP CSP exam after course completion for free or at a reduced cost.

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Summary of Program	
the organization. Describe now the program	
According to the "Lower Rio Grande Valley information, careers in Cybersecurity, which that are in high demand for the region. The Cybersecurity Program of Study by offering currently offers the Level 1 Courses (Principle Through this grant and the funds secured, it	cation (CTE) department is striving to offer students various programs of studies et high-demand, high-wage jobs that are currently needing to be filled. Workforce Development Area (23) Labor Market Information, 2020 - 2030" falls within the STEM endorsement and Career Cluster are one of those careers opportunity for this grant will allow us to implement and strengthen the the Level 2 - 4 courses associated with Cybersecurity; Mercedes ISD CTE les of IT and Fundamentals of Computer Science). Would ensure that Mercedes ISD CTE meets its mission of "Providing the s various opportunities to learn specialized skills in various programs of studies military ready."

TEA Program Requirements

1. Identify and describe the explicit need for grant funds to support an AP Computer Science Principles (AP CSP) course. How will this grant build capacity for the LEA? How will the LEA prioritize marginalized students in receiving access to the AP CSP course offering?

Through this grant, the funds secured would allow the district to send staff to the appropriate AP Professional Development offered, allow them to become certified and gain the needed knowledge and expertise to correctly and successfully implement the courses required to complete the Cybersecurity Program of Study. In addition, the funds would ensure that all required materials and resources needed to effectively teach the course are acquired so students have the hands-on experience for the application of concepts learned in the courses offered.

This grant will also allow us to build capacity with our selected staff members via the extensive knowledge gained by attending the rigorous professional development training offered. As time progresses, the staff will be sent to additional professional development to stay abreast of any changes or updates in Cybersecurity, which is constantly evolving and advancing to meet the needs of society.

Mercedes ISD serves many underrepresented student populations and by offering this program of study, we are ensuring that these students will have access to this opportunity. Students in specialized student demographics (special education, emergent bilingual, girls (underrepresented in STEM careers), at-risk, economically disadvantaged, etc...) will be made aware of this opportunity as early as the middle school grade levels and will be encouraged to take part in this opportunity.

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TEA Program Requirements Cont'd

Describe how the LEA will select teachers to receive professional development to teach an AP CSP course. How will the LEA select teachers and ensure teacher commitment? How will the LEA ensure teachers have all the tools necessary to teach the AP CSP course successfully? Include how many teachers the LEA needs to provide the AP CSP course.

First and foremost, we will prioritize the teachers that currently teach the Level 1 courses - Principles of Information Technology and Fundamentals of Computer Science since these teachers are certified to teach these courses. The teacher who currently teaches Fundamentals of Computer Science has shown a great interest in continuing to teach additional and advanced computer science courses so this works in the favor of building our Cybersecurity program. This teacher currently obtains certifications in Secondary Computer Information Systems and Secondary Mathematics. At this time, this is the only teacher that will be offering the Computer Science courses. Mercedes ISD will ensure that we provide the appropriate professional development training, adopt a proven curriculum, and ensure that all the required and recommended equipment, materials, and resources are secured.

3. The LEA will identify and select a professional development provider. Describe the nature of the LEA/provider relationship. Which vendor will be the professional development provider for the LEA? When and how will this training occur?

Since the grant is for Advanced Placement (AP) Computer Science, we will strongly consider professional development with AP College Board, Region 1 or any other ESC and/or in the state of Texas, and the Texas Industrial Vocational Association (TIVA) conferences. Mercedes ISD will actively search for providers that offer proven and effective curriculum and outcomes. The expectation is that the provider will provide materials, resources, ongoing support and training, and a comprehensive list of all materials and resources needed for the courses. In addition, it is imperative that the provider supports the teacher with possible industry-based certifications and possible college credit hours that may be obtained through these courses. The ideal time frame is for the training to occur towards the end of the Spring semester (2023) and into the Summer (2023) so there is adequate time for the teacher to attend the summer professional development training and time to ensure that they become familiar with the curriculum and begin with lesson planning. The LEA also needs to ensure that the courses are properly scheduled into the master schedule and all materials and resources are ordered with sufficient time to ensure arrival prior to the start of the school year.

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TEA Program Requirements Cont'd

4. Describe the course curriculum for classroom instruction. List any curriculum, technology, and/or equipment required for the course.

Mercedes ISD CTE will actively search and obtain a proven and successful curriculum to utilize for the Cybersecurity program of study. Curricula will include AP College Board and use of Code.org CS Principals curriulcum that will support students and teachers new to the discipline. Mercedes HS and CTE will provide 1:1 computing access and an on-site wifi connection for learning during the school day so there are no immediate equipment needs for the course. The classroom will be set up with student desktop computers and all the accessories and software needed to make the courses successful. The teacher will be provided with an updated teacher desktop and/or laptop computer if needed.

5. Describe how students will be supported in selecting and succeeding in the AP CSP course. How does this course support the student's program of study or graduation plan? The LEA must include a plan for ensuring that students take and pass the AP CSP exam.

Starting at the middle school level, students will be introduced to the different career clusters and programs of studies that are offered at the high school level, including the Cybersecurity Program of Study and its coherent sequence of courses, which includes the Computer Science courses, Addtionally, this will support the student's program of study and graduation plan. In house tutorials by the AP Computer Science teacher will be provided to the students thorughout the course of the vear.

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6. Describe the successful grant AP course; (b)	ant administration by measuria) Increase in participation and/	e and outline student success measures. Describe how the LEA will ensure ng the following metrics: (a) Increase in the number of CTE completers taking an /or performance of students taking and/or passing the AP CSP exam; and (c) and non-traditional students enrolled in an AP CSP course.
Special emph Science; stud socioeconom they are on tr	easis will be placed on serving a ents will be HIGHLY ENCOURA lic status, and gender. To ensu ack and their case managers, (students will be documented as they proceed through the program of study. students who are underrepresented in the area of Cybersecurity/Computer GED to take part in the program of study, regardless of learning abilities, re success, students who have an IAP or IEP will be closely monitored to ensure Computer Science teacher, and counselors will be attentive to their progress and entions and support needed for them to be successful.
they are succ study. At the used to addre challenged w encouraged t	essful and provide counseling end of each course, students v ess any areas of concern and e rith meaningful and rigorous in to take AP Computer Science c	rent sequence of courses, the students will be provided with support to ensure and advisor support to ensure they are progressing through the program of will be required to take a survey of the course and provide feedback that can be insure improvements are made. As the students take the courses, they will be instruction, preparing them for the upper level courses where they will be courses and with the proper classroom and instructional strategies and in P CSP exam and be successful.
7. Describe h	ow the LEA plans to implemer	nt and sustain the AP CSP course at each campus and how the course will
	be offered beyond the grant.	
students that are complete equipment, r	are enrolled in the program of ers and are in Level 3 and Level materials, resources, set-up, etc	oriority to recruit as many students into the program as possible. The more of study, the more funds will be generated through CTE, especially if the students 4 courses. At the onset of the grant, all initial costs - professional development, c. will be covered and after the grant has come to a completion, the expectation hrough CTE-generated funds for the program of study.

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Goals, Objectives and Strategies Amendment #	
Describe the major goals/objectives of the proposed program. What activities/strategies will be implemented to meet those goals/objectives?	
The overall goal is to recruit students and have them become completers in Cybersecurity (Computer Science) program of study and graduate with multiple endorsements, including STEM, as well as with an industry-based certification, dual enrollment hours, and hands-on experience so they are college and career ready for the high-demand and high-wage jobs in the Region. The Cybersecurity program of study will be advertised and promoted at the school level and exposure to the program as early as the elementary level. Students in the program will receive assistance from their teachers, counselors, college and career readiness advisor, and administrators who will guide them through the challenges and ensure their success in the program. In order to ensure that they remain interested and motivated in the program, scheduled speakers and industry partners from the Cybersecurity/Computer Science industry will be invited, as well as recruiters from local IHE's (institutions of higher education) to discuss their Cybersecurity programs, and Workforce Solutions to discuss local career opportunities and/or internships.	

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Budget Narr		Amendment #
The second second second		et the needs and goals of the program, including for staffing, supplies and
materials, cor	ntracts, travel, etc. If applicable	, include a high-level snapshot of funds currently allocated to similar programs. iustments will be made in the future to meet needs.
number of stu by the CTE De actively partic	eacher to teach the computer and the course partment. In addition, stipend siparte in skills development and	outer Science courses also teaches math courses, the grant will help pay the science courses so the high school can hire a math teacher in his place. As the es generate funding, the program and the salary of the teacher will be sustained s will be offered to the teacher to encourage a student organization that will d competitions. All supplies, materials, equipment, professional development, lps to colleges/universities and business will be paid for through the grant.
Per Teacher Br Teacher stipe Code.org AP Teacher trav	udget end to complete Code.org AP of CS Principals Professional Leadel support: Coordinated by and ples student exam fees (12): \$1 d print: \$331 to \$769	CS Principals Professional Learning Program: \$1,200 rning Program registration fee: \$1,500 other federal grant

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Appendix I: Amendment Description and Purpose (leave this section blank when completing the 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 Administering a Grant page. The following are required to be submitted for an amendment: (1) Page 1 of the application with updated contact information and current authorized official's signature and date, (2) Appendix I with changes identified and described, (3) all updated sections of the application or budget affected by the changes identified below, and, if applicable, (4) Amended Budget Request. Amendment Instructions with more details can be found on the last tab of the budget template.

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Amended Section	Reason for Amendment