# 21<sup>st</sup> Century Science, Technology, Engineering, and Mathematics (STEM) Labs



Grant Rubric

Title II, Part D:

Enhancing Education

Through Technology — ARRA

(Ed Tech)

Competitive Grants

CFDA 84.386A

Georgia Department of Education
Office of Technology Services

#### Proposal Format (10 points)

Section A: Project Personnel (15 points)

Section B: Critical Academic Needs in a Core Area (10 points)
Section C: Critical Technology and STEM Lab Needs (10 points)

Section D: Current Instructional Context and Needs Assessment (10 points)

Section E: System Support for Grant (10 points)
Section F: Local Implementation Plan (30 points)

Section G: Evaluation Plan (10 points)
Section H: Dissemination Plan (10 points)

Overall Quality of Proposal (10 points)

Characteristics of high-quality proposals meeting both the purpose and outcomes of the grant:   Document has the correct name format – AbcCo_XyxHS_STEM.   The narrative uses Times New Roman font.     All components contained in ONE AND ONLY ONE PDF document.   Document begins with the cover sheet (Appendix B).     Bach page contains a header with the following information:   Name of the grant   Document are information:   Appendix C – Assurances Form   Appendix D – Private School Consultation Form   Appendix F – StrickESA Agroement	PROPOSAL FORMAT (10 POINTS)						
AbcCo_XyzHS_STEM.	Characteristics of	high-quality propo	sals meeting both	the purpose and o	utcomes of the grant:		
□ All components contained in ONE AND ONLY ONE PDF document. □ Narrative consists of no more than 20 pages. □ Document begins with the cover sheet (Appendix B). □ Each page contains a header with the following information: • Name of the grant • District name • School name □ Each page contains a footer with the following information: • Page number • Date  No Characteristics Present  Possible And ONLY ONE Page number PDF document □ Document is single-spaced. □ Each section of the grant narrative is clearly labeled/identified. □ Document also contains the following signed Appendices: • Appendix C – Assurances Form • Appendix D – Private School Consultation Form • Appendix H – System Letter of Commitment containing the signatures of all team members  O 1 1 2 3 4 All of Characteristics Present Present  All of Characteristics Present Prese	Document ha	s the correct name	format –	☐ The narra	tive uses Times New R	oman font.	
PDF document.  Narrative consists of no more than 20 pages.  Document begins with the cover sheet (Appendix B).  Each page contains a header with the following information:  Name of the grant  District name  School name  Each page contains a footer with the following information:  Page number  Date  No  Characteristics Present  Present  PEach section of the grant narrative is clearly labeled/identified.  Document also contains the following signed Appendices:  Appendix C – Assurances Form  Appendix F – ETC/RESA Agreement  Appendix F – ETC/RESA Agreement  Appendix H – System Letter of Commitment containing the signatures of all team members  Characteristics Present  No  Characteristics Present  O  1  2  3  4  5	AbcCo_XyzHS	S_STEM.		■ The narrat	tive uses font size 10.		
PDF document.  Narrative consists of no more than 20 pages.  Document begins with the cover sheet (Appendix B).  Each page contains a header with the following information:  Name of the grant  District name  School name  Each page contains a footer with the following information:  Page number  Date  No  Characteristics Present  Present  District name  Characteristics Present  No  Characteristics Present  District name  Appendix C – Assurances Form  Appendix C – Assurances Form  Appendix F – ETC/RESA Agreement  Appendix H – System Letter of Commitment containing the signatures of all team members  Exceeds Stated Characteristics Present  All of Characteristics Present  Characteristics Present  Characteristics Present  All of Characteristics Present  Characteristics Present  Characteristics Present  Characteristics Present  Appendix C – Assurances Form  Appendix D – Private School Consultation Form  Appendix D – Brivate School Consultation Form  Appendix D – Private School Consultation Form  Appendix D – Appendix D – Appendix D – Appendix D –	All componer	nts contained in <u>ON</u>	IE AND ONLY ONE	Document	t is single-spaced.		
□ Narrative consists of no more than 20 pages. □ Document begins with the cover sheet (Appendix B). □ Each page contains a header with the following information: • Name of the grant • District name • School name • School name □ Each page contains a footer with the following information: • Page number • Date  No Characteristics Present  O 1 2 3 4 5  Document also contains the following signed Appendices: • Appendix C – Assurances Form • Appendix D – Private School Consultation Form • Appendix F – ETC/RESA Agreement • Appendix H – System Letter of Commitment containing the signatures of all team members  • All of Characteristics Present • Characteristics Present • Appendix C – Assurances Form • Appendix D – Private School Consultation Form • Appendix D – Private School Consultation Form • Appendix B – ETC/RESA Agreement • Append	PDF documer	nt.		Each secti	on of the grant narrati	ve is clearly	
□ Each page contains a header with the following information:  • Name of the grant • District name • School name • School name • Each page contains a footer with the following information: • Page number • Date  No Characteristics Present  No Characteristics Present  No Tesent P	■ Narrative cor	isists of no more th	an 20 pages.		_	,	
□ Each page contains a header with the following information:  • Name of the grant • District name • School name • School name • Each page contains a footer with the following information: • Page number • Date  No Characteristics Present  No Characteristics Present  No Tesent P	Document be	gins with the cover	sheet (Appendix B	s). $\square$ Document	t also contains the follo	owing signed	
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<ul> <li>School name</li> <li>Each page contains a footer with the following information:         <ul> <li>Page number</li> <li>Date</li> </ul> </li> <li>No Characteristics Present</li> <li>Present</li> <li>Present</li> <li>Appendix H – System Letter of Commitment containing the signatures of all team members information:         <ul> <li>Appendix H – System Letter of Commitment containing the signatures of all team members information:             <ul> <li>Page number</li> <li>Characteristics Present</li> <li>All of Characteristics Present</li> <li>Present</li> <li>All of Characteristics Present</li> <li>Present</li> <li>All of Characteristics Present</li> <li>All of Characteristics Present</li> <li>All of Characteristics Present</li> <li>All of Characteristics Present</li></ul></li></ul></li></ul>	<ul> <li>Name of</li> </ul>	the grant		<ul> <li>Appe</li> </ul>	ndix D – Private Schoo	l Consultation Form	
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0 1 2 3 4 5					Present	Characteristics	
					Д	5	
Comments: (kequirea)			2	3	т	3	

SECTION A: PROJECT PERSONNEL (15 POINTS)						
Characteristics of	high-quality prop	posals meeting bo	th the purpose and	d outcomes of the gra	ant:	
Characteristics of high-quality proposals meeting both the purpose and outcomes of the grant:  □ Provides evidence of a STEM Lab Grant Governance Board, including at a minimum each of the following:  • grant school administrators, • CTAE Director, • grant teachers (CTAE, mathematics, and science), • post secondary instructors, • STEM industry representatives, • LEA IT coordinator.  □ Provides evidence that all of the above Governance Board members have knowledge of the grant application, grant purpose, and outcomes (team members are engaged in the grant plan and share the grant outcomes and responsibilities, Letter of Commitment signed by all members, etc.).  □ Documents the background/experience of the di IT coordinator to support grant outcomes.  □ Documents the background of the school administrator in the area of school improvement educational leadership.  □ Provides evidence of past successes that can be attributed to proposed project personnel, especifically.  □ Steeling the grant teacher(s) support student use of the technology to achieve grant outcomes.  □ Documents the background/experience of the di IT coordinator to support grant outcomes.  □ Documents the background of the school administrator in the area of school improvement educational leadership.  □ Provides evidence of past successes that can be attributed to proposed project personnel, especifically in the areas of teacher collaboration, delivery of STEM instruction, and creation of inquiry-based projects.					experience of the district nt outcomes. If the school chool improvement and cesses that can be not personnel, especially pration, delivery of	
Provides no description of team qualifications	Provides minimal description of team qualifications	Broadly describes team qualifications	Specifically describes team qualifications	Specifically describes team personnel qualifications and provides some details on key achievements	Specifically describes team personnel qualifications and provides explicit details and examples of key achievements	
0	1	2	3	4	5	
Comments: (Re	equired)			DAW	CCODE v. 2.	
RAW SCORE x 3:						

SECTION B: CI	SECTION B: CRITICAL ACADEMIC NEEDS IN A CORE AREA (10 POINTS)						
Characteristics o	f high-quality prop	osals meeting both	the purpose and ou	utcomes of the grant:			
☐ Clearly defin	es and documents	in table format	■ Documents ST	EM related academic	needs that are		
(table may b	(table may be attached as an additional appendix "critical" (below state averages, keeping schools from						
so as not to	count toward the 2	20-page limit) the		ate yearly progress, o			
	STEM academic ar		"needs improv	vement" lists).			
	data sources and tr			ademic needs in tern	ns consistent with		
time.				ormance Standards.			
Provides no	Provides minimal	Broadly describes		Specifically			
description of	description of	current	Specifically	describes current	Specifically describes		
current	current	instructional needs	describes current	instructional needs	current instructional		
instructional	instructional	but provides no	instructional needs	and provides some	needs and provides		
needs context	needs and	detail or specifics	and demographic	details on	explicit details on		
and no	minimal	and minimal	data but provides	demographic data	demographic data		
demographic or	demographic and	demographic and	no score data	and score data	and score data		
score data	score data	score data					
0	1	2	3	4	5		
Comments: (Required)							
RAW SCORE x 2:							

SECTION C: CRITICAL TECHNOLOGY AND STEM LAB NEEDS (10 POINTS)						
Characteristics o	f high-quality pro	posals meeting both	the purpose and ou	utcomes of the gran	t:	
education of Describes th century skills Describes ho Lab to increacentury skills scores. Describes th	e school's need fo and technology li	r improving 21 <sup>st</sup> iteracy. leverage the STEM science, 21 <sup>st</sup> acy, and CTAE	to the recomn in Appendix A  Provides a tab appendix so as outlining the sexpenditures of		re specifications listed ached as an additional d the 20-page limit) ogy budgets and rears to show the	
Provides no documentation of critical technology needs	Provides minimal documentation of critical technology needs	Broadly states critical technology needs but provides no detail or specifics	Specifically describes critical technology needs but provides no detail or specifics	Specifically describes critical technology needs and provides some funding details	Specifically describes critical technology needs and provides a detailed documentation of funding and technology status	
0	1	2	3	4	5	
Comments: (Required)						
				RAW S	CORE x 2:	

SECTION D: CURRENT INSTRUCTIONAL CONTEXT AND NEEDS ASSESSMENT (10 POINTS)							
Characteristi	cs of high-qualit	ty proposals me	eting both the	purp	ose and outcomes of t	he grant:	
<ul> <li>□ Describes the current instructional context of science, technology, mathematics, and CTAE courses.</li> <li>□ Compares the current instructional context of these courses to the future goals and vision for the inclusion of technology infused, interdisciplinary, inquiry-based STEM Lab projects in these courses.</li> <li>□ Describes how the teachers will</li> <li>• collaborate,</li> <li>• leverage the STEM Grant Governance Board to create technology infused, interdisciplinary, inquiry-based real-world problem solving STEM projects,</li> <li>• increase student engagement in STEM projects,</li> <li>• increase student interest in STEM studies,</li> <li>• increase student understanding of STEM-related careers to include engineering, and</li> <li>• increase student 21st century and technology literacy skills.</li> </ul>			<ul> <li>Describes how this grant will help the grant teachers move toward their instructional goals.</li> <li>Describes teacher(s)'s current instructional practices and STEM content knowledge.</li> <li>Describes how this grant will help teachers prepare students to enter STEM-related postsecondary courses or STEM-related careers.</li> <li>Documents a commitment by the applicant to address specific learning goals, the Georgia Performance Standards, NETS-S, and authentic, engaging instruction for their students.</li> <li>Provides evidence that grant goals are aligned to the school/LEA's school improvement plan.</li> <li>Provides evidence that the School/LEA has aligned the grant goals to the Georgia Department of Education Keys to Quality: Unlocking Continuous Improvement</li> </ul>				
Provides no description of current instructional context and no assessment of needs	Provides limited description of current instructional context and no assessment of needs	Provides limited description of current instructional context and limited assessment of needs	Provides a description of current instructional context and an assessment of needs, but includes no details on how they will help teachers move toward their instructional goals	doc to a goal	ovides a description of current instructional atext, an assessment of eds, includes details on a they will help teachers move toward their instructional goals, tuments a commitment ddress specific learning is, the GPS, NETS-S, and authentic, engaging instruction for their dents, but includes no dence of alignment to the school/LEA's approvement plan and Keys to Quality	Provides a description of current instructional context, an assessment of needs, includes details on how they will help teachers move toward their instructional goals, documents a commitment to address specific learning goals, the GPS, NETS-S, and authentic, engaging instruction for their students, and includes evidence of alignment to the school/LEA's improvement plan and Keys to Quality	
0	1	2	3		4	<u>to Quality</u> 5	
	: (Required)	-	3		•		
RAW SCORE x 2 :							

Characteristics of high-quality proposals meeting both the purpose and outcomes of the grant:   Documents the willingness and ability of project staff, administrators, and teachers to engage in this type of instructional change and technology deployment.   School/LEA describes specific system supports that are currently in place to assist them in fully implementing the grant and/or what types of system supports they will enact to support they grant teachers and the grant program.   Documents the creation of a STEM Grant Governance Board will plan the technology infused, interdisciplinary, inquiry-based STEM projects, provide support to teachers and students, monitor implementation, conduct periodic data analysis of student assessments, plan for sustainability, and plan community marketing and communication of the importance of STEM.    Provides no documentation of system support for grant and/or internships.   Provides no documentation of system support for grant grant   Specifically describes system support for grant, and commentation of system support for grant, and Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant, provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support for grant provides specific, etailed STEM Grant Governance Board plans   Specifically describes system support	SECTION E: SYSTEM SUPPORT FOR GRANT (10 POINTS)							
administrators, and teachers to engage in this type of instructional change and technology deployment.  School/LEA describes specific system supports that are currently in place to assist them in fully implementing the grant and/or what types of system supports they will enact to support the grant teachers and the grant program.  Documents the creation of a STEM Grant Governance Board will plan the technology infused, interdisciplinary, inquiry-based STEM projects, provide support to teachers and students, monitor implementation, conduct periodic data analysis of student assessments, plan for sustainability, and plan community marketing and communication of the importance of STEM.  Provides no documentation of system support for grant and plans  Provides no documentation of system support for grant for grant and plans  Provides no documentation of system support for grant for grant and plans  Provides no documentation of system support for grant provides no detail on STEM Governance Board plans  O 1 2 3 4 5 5	Characteristics	of high-quality p	proposals meetin	g both the purpos	se and outcomes of the	grant:		
Provides no documentation of system support for grant of support for grant grant and provides no detail on STEM Grant Governance Board plans and provides some detail on STEM Grant Governance Board plans and provides and plans and provides and provides some detail on STEM Grant Governance Board plans and financial resources after the funding period ends.  Specifically describes system support for grant, provides specific, detailed STEM Grant Governance Board plans, but does not identify plan for retaining human, material, and financial resources after the funding period ends.  O 1 2 3 4 5	<ul> <li>□ Documents the willingness and ability of project staff, administrators, and teachers to engage in this type of instructional change and technology deployment.</li> <li>□ School/LEA describes specific system supports that are currently in place to assist them in fully implementing the grant and/or what types of system supports they will enact to support the grant teachers and the grant program.</li> <li>□ Documents the creation of a STEM Grant Governance Board.</li> <li>□ Describes how the STEM Grant Governance Board will plan the technology infused, interdisciplinary, inquiry-based STEM projects, provide support to teachers and students, monitor implementation, conduct periodic data analysis of student assessments, plan for sustainability, and plan community marketing and</li> </ul>				maintain implementati and strategies that pos achievement. Addresses LEA support professional learning o time, etc.) for the actio positively impact stude Identifies plan for retai and financial resources period ends. Describes how the Schothe necessary infrastru wiring for any required Optional: discussion of	on of the processes itively impact student  (e.g., policies, protected ins and strategies that ent achievement. ning human, material, after the funding pol/LEA will provide cture and electrical technology.		
0 1 2 3 4 5	documentation of system support for	minimal documentation of system support for	system support for grant but provides no detail on STEM Grant Governance	describes system support for grant, and provides some detail on STEM Grant Governance	system support for grant, provides specific, detailed STEM Grant Governance Board plans, but does not identify plan for retaining human, material, and financial resources after the	system support for grant, provides specific, detailed STEM Grant Governance Board plans, and identifies plan for retaining human, material, and financial resources after the funding period		
	0	1	2	3				
RAW SCORE x 2:	Comments:	(Required)			RAW			

SECTION F: LOCAL IMPLEMENTATION PLAN (30 POINTS)						
Characteristics	of high-quality p	roposals meetin	g both the pur	pose	and outcomes of the gra	nnt:
☐ Clearly des will coincid school's Cl ☐ Describes to Quality: resources. ☐ Clearly des proposal is Standards ☐ Identifies s software a available to Clearly des proposal is models of	scribes how imple de with the imple	mentation of this mentation of the wolves the use of muous Improvement chool/LEA's grant eorgia Performant resources, includes that will be mers and students. The chool/LEA's grant end and best-praction of the cology infused	the Keys ent  t dince  ding adde t t	Provides specific examples of how the instruction/classroom activities occurring in the STEM lab will change to encourage teachers to work collaboratively as a team, and will be motivating, rigorous, and beneficial to students.  Specifies what STEM-related competitions will be provided to students.  Clearly describes the type of formative assessments teachers will employ to monitor student growth in understanding and 21 <sup>st</sup> century skills.  Describes the process that will be used to develop the elementary feeder outreach program.  Describes how the school will ensure all related science, technology, engineering, mathematics, and CTAE teachers will share the 21st Century STEM lab.		
Provides no description of how rigorous, engaging, and authentic instruction will be delivered within this grant, and no connection to GPS, NETS-S, CLIP, and Keys to Quality	Provides minimal description of how rigorous, engaging, and authentic instruction will be delivered within this grant, but no connection to GPS, NETS-S, CLIP, and Keys to Quality	Broadly describes how rigorous, engaging, and authentic instruction will be delivered within this grant, but no connection to GPS, NETS-S, CLIP, and Keys to Quality	Specifically describes ho rigorous, engage and authent instruction will delivered with this grant, and describes connections GPS, NETS-S, Cand Keys to Quality, but a description of specific activity competitions, formative assessment	y ging, ic I be hin nd to CLIP, o no of cies,	Specifically describes how rigorous, engaging, and authentic instruction will be delivered within this grant, describes connections to GPS, NETS-S, CLIP, and Keys to Quality, describes specific activities, competitions, and formative assessments, and describes how teachers will share the STEM lab, but identifies no plan to develop elementary feeder outreach program	Specifically describes how rigorous, engaging, and authentic instruction will be delivered within this grant, describes connections to GPS, NETS-S, CLIP, and Keys to Quality, describes specific activities, competitions, and formative assessments, describes how teachers will share the STEM lab, and describes plan to develop elementary feeder outreach program
0	1	2	3		4	5
Comments: (Required)  RAW SCORE x 6:						

SECTION G: EVALUATION PLAN (10 POINTS)						
Characteristics	of high-quality pr	oposals meeting b	oth the purpose	and outcomes of the	grant:	
<ul> <li>□ Describes how the school/LEA will evaluate progress toward research-based instructional practices, using technology effectively for teaching and learning, improving students' technology literacy, and academic performance in critical need areas.</li> <li>□ Specifies the steps and process for assessing success in implementing the funded project.</li> <li>□ Provides evidence that students from this program go into STEM-related careers or postsecondary STEM-related training.</li> <li>□ Provides evidence that students understand STEM-related careers including a clear understanding of what engineering professionals do.</li> <li>□ Specifies the criteria used to measure the impact of the project on student achievement. At a minimum, CRCT or EOCT data submitted for 2009-2010 and 2010-2011 for the participating teachers/classrooms.</li> <li>□ Describes school's/LEA's ability to participate in a grant-wide common pre and post assessment that will be used to demonstrate their students' and teachers' 21st century skills.</li> <li>□ Provides a timeline for completing the implementation of the project and the evaluation steps. Both teacher and student data should be considered.</li> <li>□ Specifies measures to evaluate the extent to which the project increases the integration of technology into instructional practices.</li> </ul>						
Provides no description of how project will be evaluated and no baseline data	Provides minimal description of how project will be evaluated and minimal baseline data	Broadly states how project will be evaluated, provides some baseline data, and provides a general timeline  Specifically states how the project will be evaluated, provides some baseline data, and provides a general timeline		baseline data, provides a timeline, and describes ability to participate on a committee to	Specifically states how project will be evaluated, provides explicit details and examples of evaluation, provides complete baseline data, provides a detailed timeline, describes ability to participate on a committee to implement a grant-wide common pre and post assessment, and provides evidence that students from this program understand STEM-related careers and pursue STEM-related careers/postsecondary training	
0	1	2	3	4	5	
0 1 2 3 4 5  Comments: (Required)  RAW SCORE x 2:						

SECTION H: DISSEMINATION PLAN (10 POINTS)								
Characteristics	of high-quality	proposals meetir	ng both the pur	pose and outcon	nes of the grant:			
<ul> <li>□ Clearly describes what the school/LEA hopes to learn and gain from participating in this grant program.</li> <li>□ Outlines specific plans to use this information and increased capacity locally in the future.</li> <li>□ Outlines specific plans to share what is learned with others beyond the school/LEA.</li> </ul>			Provides evidence of targeting specific audiences.  Describes plans to develop specific, usable products that would be useful to others.  Describes how technology will be used to aid dissemination activities.  Identifies how the dissemination plan will benefit a broad audience and a variety of stakeholders.  Identifies a high probability that others would respond to the school/LEA's dissemination plan.  Specifically states how					
Provides no plan for dissemination of project outcomes	Provides minimal description of dissemination of project outcomes	Broadly states how outcomes will be disseminated but provides no detail or specifics	Specifically states how outcomes will be disseminated but provides no detail or specifics	Specifically states how outcomes will be disseminated and provides some details on plan for sharing outcomes beyond the LEA	outcomes will be disseminated by providing explicit details and examples of how outcomes will be shared beyond the LEA and examples of how outcomes might be shared statewide			
0	1	2	3	4	5			
	RAW SCORE x 2:							

### **OVERALL PROJECT QUALITY (10 points)**

In this section, readers are asked to consider the grant proposal holistically and assign a score for overall quality of the proposal. Above all else, the reviewer must consider the school system's capacity to implement the required grant activities so that the critical grant outcomes of increasing community understanding of the importance of STEM education and capacity to sustain a viable STEM educational program to prepare students for work and life in the 21st century; developing model technology enabled STEM labs emphasizing, interdisciplinary, hands-on, inquiry-based (guided discovery) learning aligned to the Common Core State Standards and the Georgia Performance Standards; increasing Georgia's capacity to provide high quality K-12 STEM professional learning opportunities; increasing student engagement and interest in STEM studies; increasing student 21<sup>st</sup> century skills and technology literacy by providing students with opportunities to use the technical tools of the STEM industry; and increasing the number of students pursuing careers in STEM-related fields and/or post-secondary STEM related education/training are achieved.

### STOP! Total your scores for the 1<sup>st</sup> nine (9) Sections

Score for first 9 Sections (Format Section + Sections A – H) = \_\_\_\_\_

Based on this score and using the following scoring blocks, determine your recommendation for funding. If the score for the first nine (9) sections is **67** or less, then do <u>NOT</u> recommend them for funding. If you think this score is not a correct representation for the first 9 Sections, then please go back and re-score them.

0 - 50	51 <b>– 67</b>	68 – 84	85 – 98	99 – 108	109 - 115	
Not Recommended for Funding				Highly Recommended for		
		Recommende	ed for Funding	Fun	ding	
0	1	2 3		4	5	
Not confident that the system has the capacity to ensure high-quality implementation and achievement of grant outcomes.		system has th ensure hi implemen achieveme	nfident that the ne capacity to gh-quality tation and ent of grant omes.	achieveme	ne capacity to	

Comments: (Required)

RAW SCORE x 2: