Use this routing form for obtaining approvals (in the order listed below) for every Professional or Technical Services Contract, MOU, Grant Award or other agreement exceeding $10,000. When the form is complete, the contract must be returned to the Finance Office. The Finance Office will forward those exceeding $50,000 to DFA for additional approvals.

Contract with: Harding STEM Center

Approved: ___________________________ Date: 03/26/16

Unit Leader

Approved: ___________________________ Date: ______________

Assistant Commissioner

Approved: ___________________________ Date: 4/7/16

Finance Office

Approved: ___________________________ Date: 4/15/16

Legal Office

Approved: ___________________________ Date: 4/20/16

Commissioner/Deputy Commissioner

Comments________________________________________________________

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________

Revised 11/01/15
Use this routing form for obtaining approvals (in the order listed below) for every Professional or Technical Services Contract, MOU, Grant Award or other agreement exceeding $10,000. When the form is complete, the contract must be returned to the Finance Office. The Finance Office will forward those exceeding $50,000 to DFA for additional approvals.

Contract with: Harding STEM Center

Approved: ___________________________ Date: 03/26/16
Unit Leader

Approved: ___________________________ Date: ________________
Assistant Commissioner

Approved: ___________________________ Date: ________________
Finance Office

Approved: ___________________________ Date: ________________
Legal Office

Approved: ___________________________ Date: ________________
Commissioner/Deputy Commissioner

Comments
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

Revised 11/01/15
2016 Computer Science Professional Development Program
Grant Memorandum of Understanding

This memorandum of understanding (MOU) is being entered into between the Arkansas Department of Education (ADE) and the Arkansas STEM Center, Arkansas Educational Service Cooperative, Arkansas public university, Arkansas public community college, or other public institution listed in Section I, hereinafter “INSTITUTION”.

Section I – INSTITUTION Information

Name: Harding University STEM Center for Mathematics and Science Education
Address: College of Education Box 12254
         Searcy, AR 72149-5615
Contact Name: Tim Brister
Contact Email: tbrister@harding.edu

Section II – Funding Information

Grant funding is subject to the availability of funds appropriated by legislative act for the purpose stated in the grant award. ADE reserves to right to reduce or void the grant award upon appropriated funds becoming reduced or unavailable. In addition, a grant agreement may be terminated by ADE at any time for any reason upon notice to the grant recipient.

ADE reserves the right to reduce funding if the initial funding projections are determined not to have been realistic based upon the number of actual applicants or other factors. Should additional funds become available for distribution, ADE will determine how these funds will be distributed.

Program funds shall not be obligated for expenditure before the beginning date of the grant or after the ending date of the grant. Funds may be requested only for those items that are reasonable and necessary for accomplishing the objectives of the program as defined in the application notice and for implementing activities as described.

Costs not included in the approved grant budget, including approved budget revisions, will not be reimbursed by ADE. Any costs that are incurred either before the start of the grant award or after the expiration of the grant award performance period are not allowable.

INSTITUTION must receive the benefit and liquidate all obligations incurred under the grant award no later than June 30, 2017.

For costs to be allowable to be charged to a grant, costs must generally meet the following criteria:
• Be necessary and reasonable for the performance of the grant and be allocable under the applicable cost principles
• Conform to limitations or exclusions set forth in the grant agreement as to types or amount of costs
• Be consistent with policies and procedures that apply uniformly to federally or state-funded activities and activities funded from other sources
• Be determined in accordance with generally accepted accounting principles (GAAP)
• Be adequately documented.

ADE will provide INSTITUTION up to $24,418.80 in grant funding for the ADE approved 2016 Computer Science Professional Development Program. Forward funding, not to exceed 50% of total program funding, in the amount of $5,031.00 will be made available to INSTITUTION on or before April 29, 2016. The remaining funding amount will be made available to INSTITUTION as reimbursements per the following schedule, subject to ADE receipt of invoices and attestations of meeting program requirements and MOU assurances.

The grant period for this funding is April 1, 2016 – June 30, 2017; INSTITUTION will return all funds not liquidated before June 30, 2017 to ADE by July 31, 2017.

**FY2016 – Q4 Reimbursement**
• Expenses, beyond already transferred amount, through June 20, 2016
• Invoice and attestation due to ADE on or before June 22, 2016
• Made available on or before July 29, 2016

**FY2017 – Q1 Reimbursement**
• Expenses, beyond already transferred amounts, through September 30, 2016
• Invoice and attestation due to ADE on or before October 4, 2016
• Made available on or before November 11, 2016

**FY2017 – Q2 Reimbursement**
• Expenses, beyond already transferred amounts, through December 31, 2016
• Invoice and attestation due to ADE on or before January 13, 2017
• Made available on or before February 24, 2017

**FY2017 – Q3 Reimbursement**
• Expenses, beyond already transferred amounts, through March 31, 2017
• Invoice and attestation due to ADE on or before April 5, 2017
• Made available on or before May 5, 2017

**FY2017 – Q4 Reimbursement**
• Expenses, beyond already transferred amounts, through June 20, 2017
• Invoice and attestation due to ADE on or before June 26, 2017
• Made available on or before July 29, 2017

FY2017 – Final Reimbursement
• Expenses, beyond already transferred amounts, through June 30, 2017
• Invoice and attestation due to ADE on or before July 10, 2017
• Made available on or before August 4, 2017

Section III – Program Delivery
INSTITUTION will provide professional development in the content area of computer science in accordance with the attached Computer Science Professional Development Program Grant Application 2016 submitted to ADE by INSTITUTION. Any provisions within the attached Computer Science Professional Development Program Grant Application 2016 that are in conflict with any provision within this MOU are declared invalid, and INSTITUTION must adhere to all provisions within this MOU.

INSTITUTION must commence and perform project activities according to established timelines. Failure to do so may result in reduction and reallocation of funds.

Section IV - Funding Use
INSTITUTION will utilize all funding awarded under this grant for activities to provide professional development to Arkansas educators in the content area of computer science, at no charge to said educators or their employing institutions.

INSTITUTION will use Fiscal control and accounting procedures that permit the tracing of funds to a level of expenditure adequate to establish that funds have been used in accordance with grant award. The INSTITUTION must maintain effective control over and accountability for all funds, property, and other assets. The INSTITUTION’S financial management system must provide for the following:

• Identification, in its accounts, of grant awards received and expended for the program under which they were received.
• Accurate, current, and complete disclosure of the financial results of each grant award or program
• Records that identify adequately the source and application of grant funds
• Effective control over, and accountability for, all funds, property and other assets

INSTITUTION acknowledges that funding awarded under this grant is subject to all applicable federal and state laws and regulations in addition to the provisions herein Section II – Funding Information.

INSTITUTION acknowledges that it has reported planned uses for the funding and will not substantially deviate from the program approved and as indicated within the attached Computer
INSTITUTION will not use any grant award funds to either forward fund or reimburse program participants for any PRAXIS fees; INSTITUTION will direct participants that are seeking licensure endorsement to use the ADE CS PRAXIS Reimbursement Form found at http://goo.gl/yHWjFF.

INSTITUTION will insure, prior to any participant receiving a stipend as allowed under this MOU, that participant must satisfy one of the following requirements on or before June 1, 2017:

• for classroom educators completing a K-8 focus program must take part in follow-up opportunities for one school year through which they demonstrate proper CS embedding within their classes and support of other educators within their school and/or district. (maximum stipend amount of $1,250.00)

• for district or school level educators completing a K-8 focus program must take part in follow-up opportunities for one school year through which they demonstrate how they are supporting broad classroom integration of the CS embedded standards through ongoing and meaningful professional development. (maximum stipend amount of $1,250.00)

• for classroom educators completing the 7th/8th Grade Coding Block focus program must successfully instruct students in the 7th/8th Grade Coding Block standards and demonstrate support of other educators within their school and/or district in the 7th/8th Grade Coding Block standards and the embedded K-8 Computer Science Standards. (maximum stipend amount of $1,500.00)

• for district or school level educators completing the 7th/8th Grade Coding Block focus program must take part in follow-up opportunities for one school year through which they demonstrate how they are supporting district-wide or school-wide implementation and instruction of the 7th/8th Grade Coding Block and the embedded K-8 Computer Science Standards through ongoing and meaningful professional development. (maximum stipend amount of $1,500.00)

• for any individual completing an approved professional development offering focused on preparation to pass the assessment necessary to gain an ADE Computer Science Endorsement or provisional license for non-traditional programs must be successful in attaining the ADE Computer Science Endorsement (or ADE Provisional License in Computer Science) and supporting the instruction of one or more of the approved Act 187 courses through either a face-to-face or hybrid instructional model for the 2016-2017 school year. (maximum stipend amount of $1,750.00)

INSTITUTION and participant will ensure that acceptance of any stipend is allowed under all applicable laws and rules, including district policy, prior to stipend award.

If the INSTITUTION fails to comply with any of the terms of the grant award, whether stated in a federal statute or regulation, an assurance, a state plan, application, grant award notification, or elsewhere, ADE may take one or more of the following actions:
• Temporarily withhold payments pending correction of the deficiency by the grant recipient;
• Disallow or deny both use of funds and matching credit for all or part of the cost of the activity or action not in compliance with the grant;
• Wholly or partly suspend or terminate the grant award;
• Withhold further awards for the grant program; or,
• Take other remedies that may be legally available

Section V – Reporting

INSTITUTION will complete and submit with each reimbursement request an ADE Grant Budget/Expenditure Report and Budget Narrative found at http://goo.gl/forms/1ed8hVU4x5. Reimbursement funds will not be released to INSTITUTION until the requisite Grant Budget/Expenditure Report and Budget Narrative is submitted.

INSTITUTION will report to the ADE grant coordinator for this grant a list, in .xls file format, of all participants on July 1, 2016 and June 30, 2017 and include the following participant information:

• First and Last Name
• Arkansas Educator Licensure System Case ID – available at https://goo.gl/gDI4hl
• Official Email Address
• Employing LEA
• Current Licensure Codes – same cell, comma delimited
• Grades Currently Teaching – using grade bands K-2, 3-5, 6-8, 9-12
• Percentage of program competition – INSTITUTION determined
• Number of scheduled PD hours, as part of this MOU, in which participant was expected to participate
• Number of scheduled PD hours, as part of this MOU, in which participant has actually participated
• Amount of any stipend awarded to participant – N/A for July 1, 2016 report

Section VI – Failure to Comply

ADE reserves the right to revoke a grant award for reasons including but not limited to the following:

• Noncompliance with the specified purpose of the grant award
• Failure to account for grant funds in accordance with standards for financial management, to retain proper documentation for grant expenditures, or to provide information to auditors or program monitors
• Failure to provide accurate, timely, and complete information as requested by ADE to evaluate the effectiveness of the grantee
Section VII – Other Assurances

Administration of the program, activities, and services facilitated by the funding awarded within this MOU will be in accordance with all applicable state and federal statutes and regulations.

INSTITUTION will evaluate its program semiannually to assess its progress toward achieving its goals and objectives and use its evaluation results to refine, improve, and strengthen its program and to refine its goals and objectives as appropriate.

INSTITUTION will provide ADE representatives, and/or other state agency representatives, reasonable access to the campus and classrooms where programs and/or activities facilitated by grant funds awarded under this MOU.

INSTITUTION must disclose, in a timely manner, in writing to ADE all violations of criminal law involving, but not limited to fraud, bribery, or gratuity violations potentially affecting the grant recipient. Failure to make required disclosures can result in any of the actions described in the Failure to Comply section.

INSTITUTION will select and utilize a system of participant selection that is impartial and does not exclude, based on district of employ or federally protected class, any ADE Licensed Arkansas Educator.

INSTITUTION must disclose in writing any potential conflict of interest between the recipient and ADE employees. In addition, all grant recipients that receive in excess of $25,000 will be required to complete the “Contract and Grant Disclosure and Certification Form.”

Section VIII – Commingling of Funds

INSTITUTION must not deposit or record funds in a general account without the ability to identify each specific source of funds for any expenditures, which is known as commingling of funds. Funds from each Federal, State, local, and private funding source must be identified with a clear audit trail for each source. The accounting systems of all grant recipients must ensure that grant funds are not commingled with funds from other State or Federal agencies or private entities. Funds specifically budgeted and/or received for one project may not be used to support another.

Section IX – Record Retention

Financial records, supporting documents, statistical records and all other records pertinent to the grant award shall be retained by the grant recipient for four years following the end of the grant award performance period. The retention requirement extends to books of original entry, source documents supporting accounting transactions, the general ledger, subsidiary ledgers, personnel and payroll records, cancelled checks, and related documents and records.

• Source documents include paper or electronic copies of all grant awards, applications and required financial and narrative reports.
• Personnel and payroll records shall include the signed time and attendance reports for all individuals included in the project, whether they are employed full-time, part-time, or on a volunteer basis.
• Time and effort reports are required for employees with grant-funded salaries.

Grant recipients must further agree to permit access to these records to ADE program or fiscal staff, or any of their authorized representatives, as needed for monitoring purpose.

Section X – Carryover of Grant Funds

All encumbrances/obligations shall occur on or between April 1, 2016 and June 30, 2017.

INSTITUTION must receive the benefit and liquidate all obligations incurred under the grant award no later than June 30, 2017

If the grant recipient has not obligated all of its grant funds by June 30, 2017, any unexpended grant funds will be requested for return to ADE.

Johnny Key, Commissioner of Education
Arkansas Department of Education

INSTITUTION Authorized Representative                   Date
Printed Name

INSTITUTION Authorized Representative                   INSTITUTION Authorized Representative
Printed Name                                          Title

INSTITUTION Authorized Representative                   Date
Signature
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Johnny Key, Commissioner of Education
Arkansas Department of Education

[Signature]

Date

Brad Miller
INSTITUTION Authorized Representative
Printed Name

[Signature]

Date

INSTITUTION Authorized Representative
Title

[Signature]

Date

INSTITUTION Authorized Representative
Signature
Q1: Organization Name
Harding University STEM Center for Mathematics and Science Education

Q2: Organization Type
STEM center which is a member of the Arkansas STEM Coalition

Q3: Organization LEA (if applicable)
N/A

Q4: Organization Mailing Address (Line 1)
915 E Market Ave

Q5: Organization Mailing Address (Line 2) - optional
HU Box 12254

Q6: Organization Mailing Address (City)
Searcy, AR

Q7: Organization Mailing Address (Zip Code)
72149-5615

Q8: Contact Person (First Name)
Tim

Q9: Contact Person (Last Name)
Brister

Q10: Contact Person (Email Address)
tbrister@harding.edu

Q11: Contact Person (Telephone XXX-XXX-XXXX)
501-279-4621

Q12: Contact Person (Title)
Mathematics Specialist

PAGE 2: Program Focus Selection

Q13: Please select a program focus for this application
(Note: each organization may submit a separate application for each focus area for which they wish to offer)
Embedded K-8 Computer Science Standards

PAGE 3: Program Information

Q14: Provide a program description. Be certain to provide information related to the curriculum, content guide, and materials to be utilized

The purpose of this project designed for 28 educators in grades k-8, “Leadership in k-8 Computer Science” is designed to: (1) help educators understand the Arkansas Computer Science Standards for grades k-8, (2) to begin to implement them effectively, and (3) to lead others in that implementation. The project will focus on three essential questions:
● How do the computer science standards encourage deeper student thinking?
● How do the computer science standards help teaching all subjects?
● In what ways can I lead computer science standard implementation in my school or district?

In order to accomplish the three goals listed above, three days of professional development have been planned for the summer of 2016 with a follow-up day during the school year. The summer PD days will focus on content in the computer science standards. Instruction will be designed around each of the major strands (the “schedule” section of this proposal contains listing of tentative plans for each day). While none of the strands will be taught in isolation, focusing on one strand in a session will allow deep thinking about clusters and standards in that strand while still making connections to other strands. Instruction in each strand will include an “unplugged” activity, use of appropriate technology resources, and a standards walk through that strand.

The unplugged activities come from sources such as code.org, csunplugged.org, or from the Harding University computer science department. Code.org will serve as a resource for many of the standards that involve programming. This resource will allow teachers to work at different levels, see code in different formats, and have resources that can immediately be used in the classroom. Joel Spencer from code.org will present a half-day session that includes an introduction to basic programming concepts, the mechanics of the interface, and a review of materials available. Other sections of code.org will be used throughout the summer days.

Summer days will also, at appropriate times, include use of technology such as Bee Bots, We Do’s, and Lego EV3’s. Resources such as this allow students to write or change code and immediately see how it can make an object move or change the way it moved. STEM Center specialists have observed this increases student excitement about and engagement in coding. The STEM Center has Bee Bots and EV3’s available for checkout by teachers in the surrounding area. The Wilbur Mills ESC has a van that will deliver the supplies to schools each week. As part of this project we hope to purchase a set of We Do’s that will be used in the project and will then be made available for teachers to check out, providing teachers at all levels access to this type of engaging materials. The STEM center specialists have chosen to donate time rather than request payment for work on the follow up Saturday in order to allow funds for resources to be used by teachers. A half day of the summer training will be used to investigate computer Science standards using these and other tools such as ipad apps or other websites.

It is important to understand that computer science can increase both student engagement and deeper thinking. With that in mind, the standards walks will focus on ways to integrate computer science into other subjects. Participants will also be encouraged to look for ways to meet standards with and without technology. Participants will also be asked to begin thinking about ways to lead implementation of the standards at their district.

The final sessions of the summer PD will focus on plans for implementation and plans for leadership. Participants will be asked to investigate standards from a subject with which they are familiar, and to find places where specific computer science standards will be integrated, serving as a plan for instruction. Participants will also be asked to consider a plan for leadership at their school. These plans could include, but are not limited to, providing professional development for teachers, leading another teacher or teachers in creating a plan for integrating computer science in instruction, and/or modeling or co-teaching a lessons with other teachers. An overview of these plans will be shared at the end of day three.

The plans created on day 3 will be preparation for the work to be done in the school or district. Classroom level educators will be required to document computer science standard embedding into instruction (could take the form of calendars listing standards and activities, copies of lesson plans with standards and activities, or a similar form of evidence); video of one of the lessons embedding computer science standards (a portion of the video will be shown on the follow up day); and evidence of support of other teachers (could be documentation of lessons with other teachers, PD presented on the subject, working with a PLC to do computer science standards walks, or similar evidence). District or school level educators must submit documentation of ongoing PD provided for teachers, a video of a PD for teachers (a portion of the video will be shown on the follow up day), and evidence of other support for classroom educators in the process (could take the form of but is not limited to instances of in-classroom support provided or PLC records showing time used supporting each other in CS implementation). Participants at both the classroom and district or school level will be asked to reflect on their implementation and consider ways to continue and improve embedding of the standards.

The evidence gathered will be shared with instructors in an electronic format on different occasions during the school year. Participants will be encouraged to use Edmodo to share ideas and resources throughout the project with each other or to ask questions of instructors. If teachers find good resources, they can be shared on Edmodo. Links can also be added to the computer science resources page of of the Harding Math Specialist wiki, hardingmathspecialist.pbworks.com. Participants may also schedule on site support with the math or science
specialists or request electronic support through e-mail, Skype, or other means.

In addition to the electronic follow up, a face to face day has been scheduled for Feb. 4, 2017 (a backup day is planned for May 6 in case of snow). During this day participants will share about their implementation of the CS standards and show a clip of the video. Participants will be asked to reflect on their progress and to plan for continued implementation. This face to face day should provide participants with ideas from other schools that may prove useful as they are reflecting on ways to improve implementation.

Q15: If your organization plans to contract with an outside vendor/provider to provide professional development, provide the name and website URL for that vendor/provider. (N/A for not applicable)

Joel Spenser from code.org has agreed to present for a half day of the PD at no charge to the grant.
Q16: Provide a schedule for the program. Be certain to include the days, times, and number of hours that the sessions are to meet.

This program will consist of three days (June 17, 22, 23, 2016), 8:30-3:30, in the summer and one follow up day during the school year (tentatively Feb. 4, 2017, 9:00-2:00, with a backup date in case of weather on May 6, 2017). This results in three 6-hour instructional days and one 5 hour follow up day (a working lunch is planned for Feb. 4).

A tentative schedule is as follows:

**Day 1, June 17, 2016**

8:30 - 9:30 Introductions, requirements, pre-test

9:30-10:00 Overview of Computer Science Standards (participants create pictorial representation of CS practices, then investigate strands and clusters)

10:00-11:30 Computational Thinking and Problem Solving: Problem Solving (Marshmallow Tower, CS standards not just technology, standards walkthrough)

11:30-12:30 Lunch

12:30-3:30 Introduction to code.org (Joel Spenser)

**Day 2, June 22, 2016**

8:30 - 10:30 Algorithms and Programs (Relate to thinking and problem solving, algorithms and error detection on code.org, Card Flip Magic unplugged error detection, standards walkthrough)

10:30-11:30 “Computers and Communications” and “Community, Global and Ethical Impacts” (Standards Walkthrough, search of unplugged activities on code.org)

11:30-12:30 Lunch

12:30-2:00 Data and Information: Data Representations (Data representations in all subjects, Data across grades, Standards walkthrough)

2:00-3:30 Computational Thinking and Problem Solving: How computers think (Binary Cards activity; standards walkthrough focusing on terms such as hexadecimal, JavaScript and Blockley on code.org)

**Day 3, June 23, 2016**

8:30-11:30 Break-out sessions on different resources (Bee Bots, We Do’s, EV3’s, ipad apps, web resources…; emphasize connection to CS standards)

11:30-12:30 Lunch

12:30-1:30 Subject standards and CS Standards Activity (take a subject and put specific CS standards where they will be embedded)

1:30-3:30 Develop leadership plans and share plans

**Day 4, Feb. 4, 2017 (or backup date May 6)**

9:00-1:00 Presentations by participants (their implementation along with a video clip)

1:00-2:00 Time for reflection and plan for continuing/improving implementation
Q17: Provide a detailed plan to document evidence of program performance and success of the participants including all required and requested reporting.

Multiples measures will be used to document growth implementation and Leadership in CS Standards implementation.

Goal 1: Educators will better understand the Arkansas Computer Science Standards for grades k-8.

A perceptual survey of participants will be given to determine beliefs about increase in knowledge of the CS standards. A pre- and post- assessment of computer science content contained in the standards will be given on day 1 and the follow up day respectively. Data will be analyzed to determine if the assessment shows an increase in participant knowledge.

Goal 2: Educators will begin to implement the Arkansas Computer Science Standards for grades k-8.

A perceptual survey of participants will be given to determine beliefs about increase in implementation of the CS standards. Participants will also be asked to submit documentation of standards and activities used to embed computer science standards (or for district/school level evidence of ongoing PD) and to submit a video clip of implementation. This evidence will be summarized in the grant report as evidence of implementation.

Goal 3: Educators will lead others in implementation of the Arkansas Computer Science Standards for grades k-8.

Participants will be asked to provide documentation of evidence of leadership in standards (or if a district/school level educator, evidence of support structures in place). This evidence will be summarized and reported in the report for this project.

Additionally, anecdotal data will be gathered during the project implementation and pictures of participants engaging in activities will be taken during the project. This data will be available upon request as further evidence of our implementation of the project.

Q18: Provide the qualifications required for all staff and instructors. If a project manager or director can be identified, please do so at this time.

Tim Brister is the Mathematics Specialist at the Harding University STEM Center and will serve as the project manager and as an instructor. He has been in this position for 9 years after teaching in public schools for 13 years. He is certified in 5-12 mathematics and has endorsements for Computer Science and Instructional Facilitation. When in the classroom he regularly integrated technology into instruction and even taught students to program graphing calculators. He has worked with students and teachers of all ages on many projects that include coding, robotics, and other STEM and technology concepts. Last year he assisted with facilitation of a Computer Science project designed to help teachers prepare for the Computer Science Endorsement requirements.

Ben Carrigan will assist with the instruction of this project. He taught middle level math and science at Beebe Junior High for 9 years and is currently the Science Instructional Specialist at the Harding University STEM Center, a position he has held for 5 years. While working at the STEM Center, Ben has been incorporating STEM into Elementary classrooms and has worked on several elementary school projects to bring STEM, specifically coding to the classroom. He coordinates and assists with several robotics competitions around the state and is constantly looking for new ways to incorporate computer science into the classroom.

Dr. Steve Baber is a professor of Computer Science at Harding University. He teaches computer science courses at Harding University, leads programming teams in competitions, and has participated in and received favorable reviews for projects with k-12 students (such as Computer Science for Teachers and programming-related AEGIS programs) in the past. He will not be instructing in this project, but he has agreed to serve as a resource for the instructors in the project and will likely be involved in future projects with the STEM center.

Joel Spenser is well known for professional development and school support for code.org resources. His experience in working with teachers and students to teach coding and computer skills will be an asset to this program. Joel will present a half-day session on code.org during this project.

More complete vitas (resumes) are available upon request.
### PAGE 4: Program Budget

<table>
<thead>
<tr>
<th>Question</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Q19: Total Grant Amount Requested</td>
<td>24332.0</td>
</tr>
<tr>
<td>Q20: Grant Forward Funding Requested in Dollar Amount</td>
<td>$ 5,031</td>
</tr>
<tr>
<td>NOTE: organization will be required to return all unused or excess funding once program completion information is submitted.</td>
<td></td>
</tr>
<tr>
<td>Q21: Proposed Cost Per Participant</td>
<td>869.0</td>
</tr>
<tr>
<td>Q22: Estimated Number of Participants</td>
<td>28.0</td>
</tr>
<tr>
<td>Q23: Summary of the Program's Proposed Budget</td>
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<tr>
<td>Consumable Supplies (batteries, supplies for unplugged activities, pens, etc.)</td>
<td>$ 100</td>
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<td>Printing, $ 80</td>
<td></td>
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<tr>
<td>We Do 2.0 Ready to Go 24-student Pack ($1970 + $300 for shipping and tax)</td>
<td>$ 2,270</td>
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<tr>
<td>Stipend for Participants ($660 * 28 participants), $ 18,400</td>
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</tr>
<tr>
<td>Meals and Snacks ($15 per day * 28 participants* 4 days) $ 1, 680</td>
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</tr>
<tr>
<td>Indirect Costs (8% of total from above), $ 1,802</td>
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<tr>
<td>Q24: Completer Individual Stipend Amount (if applicable)</td>
<td>660.0</td>
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<tr>
<td>Q25: Total Amount Allocated for Participant Stipends (if applicable)</td>
<td>18400.0</td>
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### PAGE 5: Assurances and Certification

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<th>Question</th>
<th>Answer</th>
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</thead>
<tbody>
<tr>
<td>Q26: WE, THE UNDERSIGNED, CERTIFY that the information contained in this application, is complete and accurate to the best of our knowledge; that the necessary assurances of compliance with applicable state and federal statutes, rules, and regulations will be met; and, that the indicated organization designated in this application is authorized to administer this grant. WE FURTHER CERTIFY that the assurances listed above, have been or will be satisfied and that all facts, figures, and representations in this application are correct to the best of our knowledge.</td>
<td>Yes</td>
</tr>
<tr>
<td>Q27: First and last name of the authorized Representative certifying this application on behalf of the organization.</td>
<td>Bradley Miller</td>
</tr>
<tr>
<td>Q28: Title of authorized Representative certifying this application on behalf of the organization.</td>
<td>Director, Office of Sponsored Programs</td>
</tr>
<tr>
<td>Item</td>
<td>Cost</td>
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<tr>
<td>----------------------------------------------------------------------</td>
<td>--------</td>
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<tr>
<td>Consumable Supplies (batteries, supplies for unplugged activities, pens, etc.)</td>
<td>$100.00</td>
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<tr>
<td>Printing</td>
<td>$80.00</td>
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<tr>
<td>We Do 2.0 Ready to Go 24-student Pack ($1970 + $300 for shipping and tax)</td>
<td>$2,270.00</td>
</tr>
<tr>
<td>Stipend for Participants ($660 * 28 participants)</td>
<td>$18,480.00</td>
</tr>
<tr>
<td>Meals and Snacks ($15 per day * 28 participants * 4 days)</td>
<td>$1,680.00</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>$22,610.00</td>
</tr>
<tr>
<td>Indirect Costs (8% of subtotal)</td>
<td>$1,808.80</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$24,418.80</strong></td>
</tr>
</tbody>
</table>
Subject: Re: Computer Science Project at Harding

Date: Tuesday, September 20, 2016 at 8:17:57 AM Central Daylight Time

From: Anthony Owen (ADE)
To: Tim Brister (Harding)
CC: Traci Boyd (ADE)

Mr. Brister,

Your request for additional funding on Harding’s 2016 CS Professional Development grant has been approved. Your total maximum allowed funding is now $26,654.40 subject to category allowances in the attached spreadsheet and all other provisions contained within the original MOU.

Thanks,

Anthony A. Owen
Coordinator of Computer Science
Arkansas Department of Education
Four State Capitol Mall; Room 302A
Little Rock, AR 72201
Office Phone: (501) 682-3386
Cell Phone: (501) 218-4506
Linkedin: www.linkedin.com/in/AnthonyAOwen
Email: anthony.owen@arkansas.gov

Interested in the Arkansas Computer Science Initiative? Follow me on twitter @AnthonyOwenADE and sign up for the Computer Science listserv at http://goo.gl/forms/FqGJ2CtXe1.

NOTICE: The contents of this email are not intended or offered as legal advice. Transmission of this information is not intended to create, and receipt does not constitute, a lawyer-client relationship between, the author or the Arkansas Department of Education and the recipient or any other reader.

From: Anthony Owen <anthony.owen@arkansas.gov>
Date: Tuesday, September 20, 2016 at 7:54 AM
To: "Traci Boyd (ADE)" <Traci.Boyd@arkansas.gov>
Cc: "Tim Brister (Harding)" <tbrister@harding.edu>
Subject: FW: Computer Science Project at Harding

Traci,

This request slipped through the cracks.

I have no problem on my end approving the additional funding.

Thanks,

Anthony A. Owen
Coordinator of Computer Science
Arkansas Department of Education
Four State Capitol Mall; Room 302A
Little Rock, AR 72201
Office Phone: (501) 682-3386
Cell Phone: (501) 218-4506
Linkedin: www.linkedin.com/in/AnthonyAOwen
Email: anthony.owen@arkansas.gov
Interested in the Arkansas Computer Science Initiative? Follow me on twitter @AnthonyOwenADE and sign up for the Computer Science listserv at http://goo.gl/forms/FqGJ2CtXe1.

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From: "Tim Brister (Harding)" <tbrister@harding.edu>
Date: Friday, June 17, 2016 at 10:49 AM
To: Anthony Owen <anthony.owen@arkansas.gov>, Ben Carrigan <bwcarrigan@harding.edu>, Allen Henderson <ahenderson@harding.edu>, Brad Miller <bmiller7@harding.edu>
Subject: Computer Science Project at Harding

Anthony,

We originally wrote our project for 28 people. We had overwhelming response and accepted three people into the project that have agreed to be in the project without receiving a stipend (total of 31 participants). If there is extra money available at the state level I would like to give these participants a stipend if they complete the project and would also like some additional funds for food and indirect costs.

I have attached an excel file showing the original budget and the proposed modifications (addl. $1980 for stipend, $90 for food, and $165.60 indirect costs). If these modifications are approved then the total award amount would be $24,418.80.

We do plan to serve these three educators either way, but would like for them to have a stipend, would like to have a little extra meal money for food, and would like to be fair to the university by providing additional indirect costs.

Thank you for considering this request.

Tim

Tim Brister
Math Specialist
Harding University STEM Center
Box 12254
Searcy, AR 72149-2254
Phone: 501.279.4621
Fax: 501.279.5717
tbrister@harding.edu
hardingmathspecialist.pbworks.com

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<table>
<thead>
<tr>
<th>Description</th>
<th>Original Budget</th>
<th>Modified for 31 participants</th>
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</thead>
<tbody>
<tr>
<td>Consumable Supplies (batteries, supplies for unplugged activities, pens, etc.)</td>
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<td>$80.00</td>
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<td>2270</td>
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<tr>
<td>Stipend for Participants ($660 * 28 participants)</td>
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<td><strong>TOTAL</strong></td>
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<td>26654.4</td>
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</table>
Added only $90 addtl. instead of full amount