

	<p align="center">State of South Carolina</p> <p align="center">Request for Proposal AMENDMENT #1</p> <p align="center">(changes indicated in red below)</p>	Solicitation: 5400027162 Date Issued: 08/16/2024 Procurement Officer: BRITTANY GREENWAY Phone: 864 592-4670 E-Mail Address: greenwayb@scsc.edu Mailing Address: SPARTANBURG COMMUNITY COLLEGE PURCHASING OFFICE 107 Community College Drive Spartanburg SC 29303-4759
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DESCRIPTION: **Cloud Software Development Environment**

USING GOVERNMENTAL UNIT: **Spartanburg Community College**

SUBMIT YOUR OFFER ON-LINE AT THE FOLLOWING URL: <http://www.procurement.sc.gov>

SUBMIT OFFER BY (Opening Date/Time): **09/03/2024 11:00 am (EST)** (See "Deadline for Submission of Offer" provision)

~~QUESTIONS MUST BE RECEIVED BY: 08/07/2024 5:00 pm (EST)~~ (See "Questions from Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **ONLINE BIDDING PREFERRED; If submitting Online in SCEIS** please See Online Bidding Instructions in Section II.B. **If submitting Hardcopy**, submit One (1) Original Hardcopy marked "Original", and One (1) Electronic (digital) Media Copy marked "Copy" (See "Electronic Copies-Required Media & Format" provision Section II.B.) **Initial here if NO redacted copy is necessary** _____

<p>CONFERENCE TYPE: Pre proposal Conference DATE & TIME: 08/07/2024 10:00 am (EST) (As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)</p>	<p>LOCATION: Spartanburg Community Coll. 131 Community College Drive; LED106 Spartanburg, SC 29303</p>
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<p>AWARD & AMENDMENTS</p>	<p>Award will be posted on 10/01/2024. The award, this solicitation, any amendments, and any related notices will be posted at the following web address: http://www.procurement.sc.gov & https://www.scsc.edu/about/vendors/purchasing-awards.php</p>
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You must submit a signed copy of this form with Your Offer. By signing, you agree to be bound by the terms of the Solicitation. You agree to keep Your Offer open for a minimum of **one hundred twenty (120) calendar days after the Opening Date**. (See "Signing Your Offer" provision.)

<p>NAME OF OFFEROR</p> <p>(full legal name of business submitting the offer)</p>	<p>Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.</p>
<p>AUTHORIZED SIGNATURE</p> <p>(Person must be authorized to submit binding offer to contract on behalf of Offeror.)</p>	<p>DATE SIGNED</p>
<p>TITLE</p> <p>(business title of person signing above)</p>	<p>STATE VENDOR NO.</p> <p>(Register to Obtain S.C. Vendor No. at www.procurement.sc.gov)</p>
<p>PRINTED NAME</p> <p>(printed name of person signing above)</p>	<p>STATE OF INCORPORATION</p> <p>(If you are a corporation, identify the state of incorporation.)</p>

<p>OFFEROR'S TYPE OF ENTITY: (Check one) (See "Signing Your Offer" provision.) <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Other _____</p>
<p><input type="checkbox"/> Corporate entity (not tax-exempt) <input type="checkbox"/> Corporation (tax-exempt) <input type="checkbox"/> Government entity (federal, state, or local)</p>

PAGE TWO

(Return Page Two with Your Offer)

<p>HOME OFFICE ADDRESS (Address for offeror's home office / principal place of business)</p> 	<p>NOTICE ADDRESS (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)</p> <p>_____ Area Code - Number - Extension Facsimile</p> <p>_____ E-mail Address</p>
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<p>PAYMENT ADDRESS (Address to which payments will be sent.) (See "Payment" clause)</p> <p>_____ Payment Address same as Home Office Address _____ Payment Address same as Notice Address (check only one)</p>	<p>ORDER ADDRESS (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)</p> <p>_____ Order Address same as Home Office Address _____ Order Address same as Notice Address (check only one)</p>
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<p>ACKNOWLEDGMENT OF AMENDMENTS Offerors acknowledge receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)</p>							
Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date

<p>DISCOUNT FOR PROMPT PAYMENT (See "Discount for Prompt Payment" clause)</p>	<p>10 Calendar Days (%)</p>	<p>20 Calendar Days (%)</p>	<p>30 Calendar Days (%)</p>	<p>_____ Calendar Days (%)</p>
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<p>PREFERENCES - A NOTICE TO VENDORS (SEP. 2009): Preferences do not apply. See SC Consolidated Procurement Code Reference 11-35-1524 (E) (2)</p>
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<p>PREFERENCES - ADDRESS AND PHONE OF IN-STATE OFFICE: Preferences do not apply. See SC Consolidated Procurement Code Reference 11-35-1524 (E) (2)</p>

AMENDMENT #1

Solicitation #5400027162

AMENDMENTS TO SOLICITATION (JAN 2004)

The Solicitation may be amended at any time prior to opening. All actual and prospective Offerors should monitor the following web site for the issuance of Amendments: www.procurement.sc.gov (b) Offerors shall acknowledge receipt of any amendment to this solicitation (1) by signing and returning the amendment, (2) by identifying the amendment number and date in the space provided for this purpose on Page Two, (3) by letter, or (4) by submitting a bid that indicates in some way that the bidder received the amendment. (c) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged. [02-2A005-1]

QUESTIONS FROM OFFERORS- AMENDMENT (Jun 2017)

The solicitation is amended as provided herein. Information or changes resulting from questions will be shown in a question-and-answer format. All questions received have been reprinted below. The "state's response" should be read without reference to the questions. The questions are included solely to provide a cross-reference to the potential Offeror that submitted the question. Questions do not form a part of the contract; the "state's response" does. Any restatement of part or all of an existing provision of the solicitation in an answer does not modify the original provision except as follows: underlined text is added to the original provision. Stricken text is deleted. [02-2a097-1]

ALL OTHER TERMS, CONDITIONS, BIDDING INSTRUCTIONS, AND SPECIFICATIONS REMAIN UNCHANGED. IF THERE ARE ANY QUESTIONS OR IF ANY CONFUSION OR UNCERTAINTY ARISES AS A RESULT OF THIS AMENDMENT, IT IS THE SOLE RESPONSIBILITY OF THE OFFEROR TO CONTACT THE PROCUREMENT OFFICIAL FOR ELUCIDATION. CONTACT INFORMATION CAN BE FOUND IN THE TOP RIGHT-HAND CORNER OF THE COVER PAGE OF THIS AMENDMENT. REFERENCE THE "DUTY TO INQUIRE" CLAUSE IN THE ORIGINAL INVITATION FOR BID.

Sol #5400027162 Cloud Software Dev. Environment Questions

1. Approximately how many users of the development environment, including admin/staff, are expected? (Y1-Y5 if different)
SCC's Response:500
2. What does "extended price" refer to on the pricing sheet at the end of the RFP? Is this a 5-year total price, second-year price -- or something else?
SCC's Response: You should enter in the full 5-year potential value (per line item) in the Extended Price box. Implementation EP box should only reflect the 1-time cost since it is not a reoccurring figure.
3. Approximately what timeline do you contemplate, after award, for implementation? Do you have hard or soft deadlines for beta and/or final go-live?
SCC's Response: Soft deadline, we'd like to have a beta by the spring semester. Final go live by next fall would be firm.

4. Can we provide references from international higher education institutions where similar solutions have been deployed?
SCC's Response: No. References must be provided from within the continental US.
5. What is the yearly budget and overall spending allocated for this project?
SCC's Response: Budgetary Information will not be provided.
6. Can you explain the established and expected SLAs? Additionally, could you specify the current IT support staff roles available at the school?
SCC's Response: Please see the functional and Support Requirements for Section III. IT support is available at the school, but SCC expects this to be a stand-alone solution that comes with dedicated support.
7. Is it permissible for back-office or 24/7 support to be offshored, provided stringent security and privacy measures are ensured?
SCC's Response: No. Off-Shore contracting of any sort is prohibited. See clause listed on pg. 35 of the solicitation. Proposed solutions must be tailored to meet this mandatory requirement.
8. Could you elaborate on the purpose and expected functionalities of the sandbox environment for testing and development?
SCC's Response: The environment should allow students to complete programming assignments, labs, and work collaboratively: for collaboration purposes, the students must have the ability to deploy their working solution so it can then be accessed, tested, modified, and reviewed.
9. Is the school open to or flexible with the use of open-source technology platforms and software tools in the proposed solution?
SCC's Response: yes
10. Are there any on-premise or existing systems that need to be integrated with our cloud solution, such as CI/CD pipelines or communication platforms like Slack?
SCC's Response: no
11. Is there a requirement to migrate any existing data to the new cloud system? If so, could you provide details on the data migration needs?
SCC's Response: There is no existing programming data to be migrated but SCC does need the ability to import student rosters into the system for instructors to create and maintain profiles for each student. It is assumed that SSO would be enabled to identify students.
12. Could you specify the roles and privileges required in the system for different users?
SCC's Response: Student user: student should have full rights to their system to install and configure environments as needed. Admins should have full access to each students' environment.
13. Who will have access to a student's VM (e.g., teachers, administrators, other students)?
SCC's Response: The students will have access to their VM and the teachers will have access to all of their students' VM.
14. Will there be an inventory of software (e.g., development tools, servers, RDBMS, Windows OS, programming languages) provided to us?
SCC's Response: Yes

15. Is there a mapping between course curriculums and corresponding software tools that will be provided to us?
SCC's Response: If needed that could be provided
16. What is the current process for creating the software requirements list for a particular course or lab?
SCC's Response: Instructors complete research and develop requirements that adhere to our student learning outcomes.
17. Is there an Active Directory mapping between students and their enrolled courses?
SCC's Response: Student Authentication would come from Azure through a SAML connection. Rosters and other class information would be linked from D2L Brightspace our LMS through an LTI integration if one exists.
18. Will access to the cloud environment be restricted to on-campus users, or will it be available over the public domain?
SCC's Response: Over the public domain
19. Is there a preference for hosting the solution on a public cloud versus on-premise?
SCC's Response: SCC will not support hosting On-Premise.
20. Are there any existing compliance, data privacy, or data management requirements or regulations that the cloud environment should adhere to?
SCC's Response: NIST Cybersecurity Framework.
21. Is there a specific method for students to submit the solutions developed in the cloud environment?
SCC's Response: currently we use Git or D2L Brightspace (LMS), Offerors are to provide their solution for this in their proposed system.
22. Will the internet be accessible from within the VM (ingress/egress)?
SCC's Response: Yes.
23. What is the total number of users expected to use the cloud environment in a given semester?
SCC's Response: 150
24. What is the total number of concurrent users expected to use the cloud environment?
SCC's Response: 100
25. Could you elaborate on the data retention period and redundancy requirements for the system's data?
SCC's Response: Current academic year and Previous academic year (Fall – Summer). Two Calendar Years.
26. Does our solution need to include all software development tools such as SCM, CI/CD, project management, code analysis, and deployment environments?
SCC's Response: Yes.
27. Is the existing GitHub setup on-premise or in the cloud?
SCC's Response: there is a cloud GitHub organization that has been created by an instructor.
28. Is the environment expected to be entirely cloud based with no on-premises infrastructure?
SCC's Response: Yes.

29. Do you want us to use/leverage an existing environment or build an entirely new environment?
SCC's Response: new
30. Do you have an existing enterprise agreement with Microsoft?
SCC's Response: SCC has a licensing agreement with Microsoft through a reseller.
<https://apps.sceis.sc.gov/SCContractWeb/contractDetail.do?contractNumber=4400032494&hideReturnButton=false>
<https://apps.sceis.sc.gov/SCSolicitationWeb/solicitationAttachment.do?solicitnumber=5400014130>
31. Do you have an existing cloud service provider?
SCC's Response: No.
32. Do you anticipate taking ownership of the environment at any future point in time?
SCC's Response: No, SCC must be able to make configuration changes and administrative changes, but also needs dedicated support.
33. What operating systems need to be supported by the environment?
SCC's Response: Windows, Mac and Linux are a must, others are optional.
34. Does SCC own licenses for Visual Studio?
SCC's Response: Yes.
35. Should the environment have templates for standard code deployments?
SCC's Response: Yes.
36. Should the environment prevent the utilization of certain tooling like GitHub Copilot?
SCC's Response: SCC must be able to turn it on and off when necessary.
37. Should the environment integrate with existing tooling such as D2L Brightspace and GitHub?
SCC's Response: Yes.
38. Should the system provide a way to create and provision entire virtual labs in the cloud or just cloud-based workstations with the tools necessary to facilitate development for an assignment or project?
SCC's Response: Yes. SCC needs the system to do both. The virtual lab must include the tools needed to facilitate the completion of a project that can then be accessed, tested, and deployed.
39. How many students are expected to be using the cloud-based environments?
SCC's Response: All Computer Technology Students eventually, which is roughly 500 students. SCC would initially roll this out to one class which is about 60 students.
40. How many students are expected to be concurrently working within cloud-based environments at peak hours?
SCC's Response: 100
41. Are there any specific data residency or regulatory compliance we need to comply with?
SCC's Response: NIST Cyber Security Framework.
42. Is the cloud solution expected to be self-hosted by SCC or the vendor?
SCC's Response: The Vendor.

43. Should the environment start instantly or is there a tolerable level of warm-up?
SCC's Response: A small warmup period may be ideal. However, these resources will be accessed during a scheduled class, so this period must be minimal.
44. Are there any required networking restrictions for connecting to the cloud-based environment?
SCC's Response: If the proposed solution needs to come back to SCC for authentication or processing in any way then yes.
45. Is there a requirement to have a backup method for offline development if internet connectivity is unavailable?
SCC's Response: no
46. Could you provide some real-world scenarios of how you envision students using this cloud-based environment to facilitate work on their assignments?
SCC's Response: Students are building a desktop application or a web application. The finished solution could be then uploaded and configured to where other students could test the application live and determine if there are errors in the application. In the real world there are production environments, dev environments and QA/Testing/Staging environments. Local developers develop or make a branch of the current "project" and they work on it locally. After completing that part, they are able to promote or publish those changes to the dev and testing environment, there, it can be tested by other developers. If the changes are good admins can then push the dev tested changes to a test/staging/QA environment where users can start to test before the solution is put into a production environment. We would want to have something that works in this manner. No, we do not need 3 or 4 different environments like this, two would do. A development environment and a testing environment for our students to practice developing, deployments, code reviews, app testing, essentially a full stack environment.
47. Have you attempted any cloud-based development environment solutions in the past? If so, what were lessons learned?
SCC's Response: SCC utilizes GIT
48. How do cloud-based environments fit into your institution's long-term educational strategy?
SCC's Response: SCC plans to adopt a software development curriculum. SCC also plans to offer a Software as a Service class in the future that will require students to be able to use, implement, develop, deploy, and manage CI/CD pipelines. The goal is to have a platform where our students can deploy, test, develop and collaborate on that would mimic a real-world software development lifecycle.
49. Is the knowledge base and community forum required to be private and only accessible to SCC?
SCC's Response: no
50. Are we required to provide any direct live support to teachers / students?
SCC's Response: SCC needs support for both the teachers and students in the event of errors or authentication issues.
51. Is the budget for this project based on tax revenue or subsidized on a cost/fee basis?
SCC's Response: Budgetary Information will not be provided.