



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.



Header 1

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 686609

SO Doc Code: CRFQ

Procurement Type: Central Master Agreement

SO Dept: 0203

Vendor ID: VS000022132

SO Doc ID: CPR2000000004

Legal Name: Cynerge Consulting, Inc.

Published Date: 5/7/20

Alias/DBA:

Close Date: 5/13/20

Total Bid: \$727,417.60

Close Time: 13:30

Response Date: 05/13/2020

Status: Closed

Response Time: 12:45

Solicitation Description: Addendum No.1 Professional Application Developers for COMPAS

Total of Header Attachments: 1

Total of All Attachments: 1



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder : 686609

Solicitation Description : Addendum No.1 Professional Application Developers for COMPAS

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2020-05-13 13:30:00	SR 0203 ESR05132000000006656	1

VENDOR
VS0000022132 Cynerge Consulting, Inc.

Solicitation Number: CRFQ 0203 CPR2000000004

Total Bid : \$727,417.60 **Response Date:** 2020-05-13 **Response Time:** 12:45:33

Comments:

FOR INFORMATION CONTACT THE BUYER
 Melissa Pettrey
 (304) 558-0094
 melissa.k.pettrey@wv.gov

Signature on File	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Temporary information technology software developers				\$727,417.60

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :	Temporary information technology software developers
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Comments: See attached proposal for copy of price sheet



Cynerge Consulting Inc.
RFQ: CPR2000000004 Professional Application Developers for
COMPASS
Due: 5/13/2020 @ 1:30PM

Company	Cynerge Consulting, Inc. 31 North Saginaw, Pontiac, MI 48342 www.cynerge.com
DUNS	800546660
GSA IT 70 Schedule Number	GS35F366GA
Point of Contact	Matt Russel CEO/President mrussell@cynerge.com 248.952.9800
Business Classification	Small Business

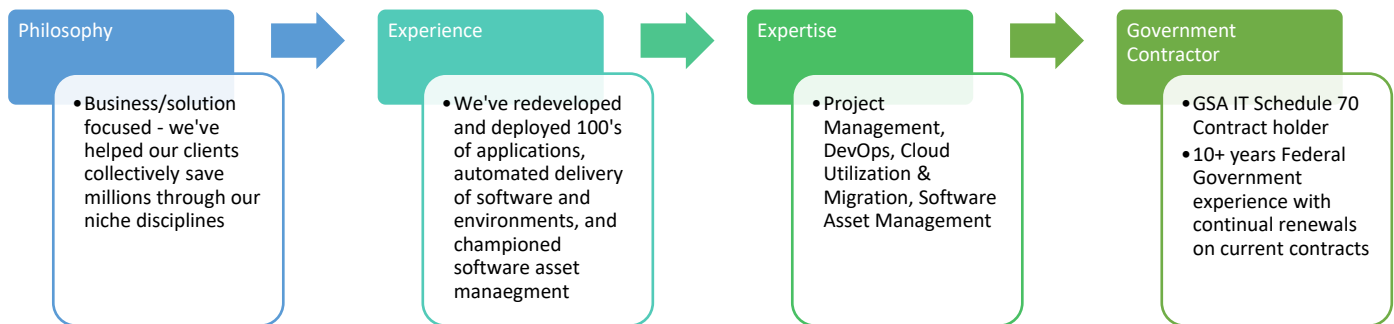
Contents

Executive Summary	3
Commercial General Liability Insurance	4
Designated Contact	6
Certification and Signature	6
Contract Manager.....	7
Addendum Acknowledgement Form.....	8
Exhibit A – Pricing Page.....	9
Exhibit A – Purchasing Affidavit.....	10
Exhibit B – Required Documentation Verification Form	11

Executive Summary

Cynerge Consulting Inc. (Cynerge) proudly presents our response to the State of West Virginia Purchasing Department. The Purchasing Department requires two professional application developers who have strong experienced backgrounds in code writing and debugging.

Founded in 2005, Cynerge is an Information Technology (IT) consultant that helps businesses understand how technology touches every aspect of business. From the mundane tasks to mission critical functions, Cynerge ensures your business works in harmony with technology. We understand technology, and we employ a collaborative and solutions-first approach to solve any business problems with technology. By creating an efficient and secure IT infrastructure, you will propel your business forward.



Cynerge cuts through the IT haze to help you understand problems and all available solutions within your technology. Our team understands that there is no panacea for technology issues, so we view each client as a unique opportunity that requires a unique and customized solution. Before firing off a potential fix, we take a deep dive to understand the root cause from both an operational and a technology perspective. This thorough process gives Cynerge creates a true partnership between our company and yours as we work to fully understand your business.

Cynerge prides itself on our rigorous development process. Using Agile software development, our team focuses on the project's requirements and design elements—which we call “user stories.” By taking the time upfront to determine the exact purpose of the application and what it's functionality should be, we create this user story that guides our development process, keeping our team focused on your needs.

Along with the Agile process, Cynerge implements Continuous Integration/Continuous Design (CI/CD) CI/CD is an automated, repeatable process that, when woven into the operational fabric of an organization, enables a modern, sustainable testing and release process. Rather than relying on manual testing and debugging, it incorporates industry best practices like DevOps, automation, and Agile principles into the development process. The CI/CD approach offers measured improvements in the development duration, efficiency, and security of its applications. This results in better use of resources, time, and delivers a secure system and a high-quality product.

In the following pages, Cynerge provides all required forms, documentation, and proposed hourly rates for our senior software developers. Cynerge looks forward to hearing back from the Purchasing Department and answering any questions that might arise from our response.

Commercial General Liability Insurance



THE HARTFORD
BUSINESS SERVICE CENTER
3600 WISEMAN BLVD
SAN ANTONIO TX 78251

April 13, 2020

Cynerge Consulting Inc.
31 North Saginaw Street
Pontiac MI 48342

Account Information:

Policy Holder Details :	CYNERGE CONSULTING, INC.
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Contact Us

Business Service Center

Business Hours: Monday - Friday
(7AM - 7PM Central Standard Time)

Phone: (866) 467-8730

Fax: (888) 443-6112

Email: agency.services@thehartford.com

Website: <https://business.thehartford.com>

Enclosed please find a Certificate Of Insurance for the above referenced Policyholder. Please contact us if you have any questions or concerns.

Sincerely,

Your Hartford Service Team

WLTR005



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
04/13/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER BIN INSURANCE HOLDINGS LLC/PHS 46505301 The Hartford Business Service Center 3600 Wiseman Blvd San Antonio, TX 78251	CONTACT NAME: PHONE (A/C, No, Ext): (866) 467-8730 FAX (A/C, No): (888) 443-6112 E-MAIL ADDRESS: _____														
INSURED CYNERGE CONSULTING, INC. 31 N SAGINAW ST PONTIAC MI 48342-2153	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC#</th> </tr> <tr> <td>INSURER A : Hartford Casualty Insurance Company</td> <td>29424</td> </tr> <tr> <td>INSURER B : Hartford Fire and Its P&C Affiliates</td> <td>00914</td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC#	INSURER A : Hartford Casualty Insurance Company	29424	INSURER B : Hartford Fire and Its P&C Affiliates	00914	INSURER C :		INSURER D :		INSURER E :		INSURER F :	
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INSURER C :															
INSURER D :															
INSURER E :															
INSURER F :															

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/Y YYYY)	LIMITS	
A	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR General Liability			46 SBA UC5185	08/21/2019	08/21/2020	EACH OCCURRENCE \$1,000,000	
	GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER: _____							DAMAGE TO RENTED PREMISES (Ea occurrence) \$300,000
								MED EXP (Any one person) \$10,000
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			46 SBA UC5185	08/21/2019	08/21/2020	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000	
								BODILY INJURY (Per person)
								BODILY INJURY (Per accident)
A	<input checked="" type="checkbox"/> UMBRELLA LIAB EXCESS LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			46 SBA UC5185	08/21/2019	08/21/2020	EACH OCCURRENCE \$1,000,000	
								AGGREGATE \$1,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N <input type="checkbox"/> N/A	46 WEC NW2840	08/21/2019	08/21/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
								E.L. EACH ACCIDENT \$1,000,000
A	EMPLOYMENT PRACTICES LIABILITY			46 SBA UC5185	08/21/2019	08/21/2020	Each Claim Limit \$5,000 Aggregate Limit \$5,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Those usual to the Insured's Operations.

CERTIFICATE HOLDER

Cynerge Consulting Inc.
31 North Saginaw Street
Pontiac MI 48342

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Susan S. Castaneda

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Designated Contact

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.



President

(Name, Title)

Matt Russell, CEO/President

(Printed Name and Title)

31 North Saginaw Street, Pontiac, MI 48342

(Address)

248-952-9800

(Phone Number) / (Fax Number)

mrussell@cynerge.com

(email address)

Certification and Signature

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Cynerge Consulting Inc.

(Company)



President

(Authorized Signature) (Representative Name, Title)

Matt Russel, CEO/President

(Printed Name and Title of Authorized Representative)

5/12/2020

(Date)

248-952-9800

(Phone Number) (Fax Number)

Revised 01/09/2020

Contract Manager

12.1. Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Kathy Suma

Telephone Number: 248.952.9800

Fax Number: _____

Email Address: ksuma@cynerge.com

Addendum Acknowledgement Form

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

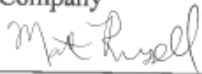
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Cynerge Consulting Inc.

Company



Authorized Signature

5/13/2020

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Exhibit A – Pricing Page

Below Cynerge presents our hourly costs for one developer and one junior developer. For this contract, Cynerge has identified two skilled developers that meet the Purchasing Department’s needs.

Contract Item	Description	Unit of Measure	Estimated Quantity	Unit Cost	Estimated Cost
5.1.1.1	Contract Services #1 – Professional Application Developers	Hourly	2080	\$84.85	\$176,488.00
5.1.1.1	Optional Renewal Year 2 for Contract Services #1 – Professional Application Developers	Hourly	2080	\$86.55	\$180,024.00
5.1.1.1	Optional Renewal Year 3 for Contract Services #1 – Professional Application Developers	Hourly	2080	\$88.28	\$183,622.40
5.1.1.1	Optional Renewal Year 4 for Contract Services #1 – Professional Application Developers	Hourly	2080	\$90.04	\$187,283.20
			Total Cost		\$727,417.60

Exhibit A – Purchasing Affidavit

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: CYNERGE CONSULTING INC

Authorized Signature: [Signature] Date: 5/12/20

State of MICHIGAN

County of KENT, to-wit:

Taken, subscribed, and sworn to before me this 12th day of May, 2020.

My Commission expires May 22, 2025.

AFFIX SEAL HERE



Amber Charise Parrish
NOTARY PUBLIC - STATE OF MICHIGAN
County of Kent
My Commission Expires 5/22/2025
Acting in the County of KENT

NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 01/19/2018)
NOTARIZED USING ELECTRONIC
REMOTE TECHNOLOGY

Exhibit B – Required Documentation Verification Form

EXHIBIT B – Required Documentation Verification Form

Documentation of Work Experience

As per section 4: mandatory qualifications; the vendor must provide documentation to validate the following requirements. Exhibit B – Required Documentation Verification Form must be completed in its entirety and should be submitted with vendor's bid response, and must be submitted prior to award.

Skillsets

4.1.1 The Vendor must provide a Senior Applications Developer contractor with prior experience in the following applied knowledge and skillsets.

- Microsoft Visual Studio 2013
- VB.NET
- XML
- ASP.NET
- CSS
- HTML
- JavaScript
- SQL Server 2012
- SQL Server Reporting Services (SSRS)

Project and Work Experience

4.1.2 The Vendor must provide a Senior Applications Developer Contractor with a minimum of two (2) years of paid experience working on projects in each of the following applications:

- Debugging Code and coding for existing systems within Microsoft Visual Studio 2013.
- Documenting in code an explanation of the code changes made throughout the development process
- Working on a team with business analysts to define new features that the contractor must then code and integrate with existing systems
- Working on a team with developers to upgrade and configure existing Code
- Software testing, including system integration and regression testing, to ensure application changes continue to meet the business needs

Concurrent experience is acceptable and must be documented on the applicable Required Documentation Verification Forms (Exhibit B).

EXHIBIT B – Required Documentation Verification Form

The Applications Developer Contractor must provide project information, their role, the utilized skillsets from section 4.1.1 and experience as described in section 4.1.2. Please complete your information. Do not handwrite the information below.

Project 1:	U.S. Forest Service – Open Forest
Duration:	2+ years (still active)
Role performed on Project:	Application development, operations, and maintenance support, application testing, application containers.
Explanation of work performed using Skillsets in 4.1.1	Cynerge currently provides lead application developers for a public-facing permit service for the U.S. Forest Service. This application employs extensive Javascript, utilizing Angular and Node.js, for the application framework. (Continued on next page)
Project 2:	U.S. Forest Service – Forest Inventory & Analysis (FIA) Business Operations Software System (BOSS)
Duration:	2+ years (still active)
Role performed on Project:	(see next page)
Explanation of work performed using Skillsets in 4.1.1	Cynerge is currently working on the FIA-BOSS project to replace five legacy applications with a modernized, integrated application that meets current usability and security requirements. For this project, we provide full design, process analysis, application development, testing, and operational support. (continued on next page)
Project 3:	U.S. Forest Service – FSApps Authentication Service
Duration:	1 year (still active)
Role performed on Project:	Cynerge performs application development, application testing
Explanation of work performed using Skillsets in 4.1.1	Cynerge provides application development services for the FSApp Service, an authentication service that enables U.S. Forest Service applications to quickly enable two-factor authentication for end-users with an approach that meets USDA regulations. (continued on next page)
Project 4:	Oakland County Michigan – Visit Oakland County tourism website & events management system
Duration:	1+ years (still active)
Role performed on Project:	(see next page)
Explanation of work performed using Skillsets in 4.1.1	The Cynerge team designed, built, and launched a tourism and events-focused website for Oakland County, Michigan. The site can be viewed at www.visitoaklandcounty.com . This effort required the coordination of user requirements from 13 communities and Oakland County for the launch. (Continued on next page)

Note: If more room is needed then attach remaining information on a separate sheet.

Project 1: Explanation of Work Performed using Skillsets in 4.1.1 continued: All data is stored in a SQL database, leveraging Sequelize to translate the Node.js data to SQL data. XML is used to transmit encoded payment transactions to Pay.gov, which is the Federal Government standard for payment processing. The entire application uses custom CSS and CSS pre-processors such as SASS.

Project 1: Role Performed on Project: Full project responsibility, including application development, project lead, business analysis, infrastructure hosting support, and application testing.

Project 2 Explanation of Work Performed using Skillsets in 4.1.1 continued: This modernization will also enable the U.S. Forest Service to reduce its dependency on Oracle-based software. The FIA-BOSS application is built using a custom Javascript es6, HTML, and an entirely custom CSS framework built from the ground up. The database layer leverages Java Spring-Boot communicating with SQL Server 2012. Reporting was done with custom SQL Server queries to generate data to feed the frontend.

Project 3 Explanation of Work Performed using Skillsets in 4.1.1 continued: For Personal Identity Verification (PIV) authentication, the FSApps Authentication Service utilizes OpenID Connect 1.0 for the identity layer on top of the OAuth2 protocol to integrate with a client web application. The identity of a user is verified through accessing the FSApps Authentication Service portal, which acts as an authorization server. The FSApps Authentication Service incorporates the bridging of protocols to route users to the USDA Identity Credentials Access Management (ICAM) eAuthentication Identity Provider Service first, using the Security Assertion Markup Language (SAML) Passive Profile protocol, where the user is authenticated; the user can then be returned to the FSApps Authentication Service portal with the SAML assertion.

Project 4: Role Performed on Project Cynerge provides full project responsibility, including application development, project lead, business analysis, application testing, and hosting support for Oakland County, MI.

Project 4 Explanation of Work Performed using Skillsets in 4.1.1 continued

The team translated user requirements into design mockups and then wireframes to ensure that all requirements for launch were met. This incorporates the LocalHop (owned and developed by Cynerge) events management and calendar system (www.getlocalhop.com). The Cynerge team created the design elements, conducted application development efforts, coordinated testing, and support the hosting operations for the website and application. This effort uses HTML5, CSS, Javascript, and MongoDB as some of the core technical components. The service is hosted in the cloud on Amazon Web Services (AWS),

EXHIBIT B – Required Documentation Verification Form

Section 4.1.2 - Debugging Code for existing systems within Microsoft Visual Studio 2013. Documenting code changes consistently throughout the development process

Previous Project: U.S. Forest Service Forest Inventory & Analysis (FIA) Business Operations Software System (BOSS)

Project Start Date: March 2018 Date Completed: 2021

Project Description:

See next page

Contractor's Role:

Cynerge has full responsibility for the modernization, re-design, and re-build of five (5) legacy applications.

Skillsets Utilized:

Program management, project management, requirements analysis, process analysis, source code analysis, application development, data-migration (Oracle to MS SQL), application testing, operational support.

The modernized application uses Visual Studio, HTML5, Javascript, Java Springboot, .NET Core, SQL Server 2012, and includes over 50 reports designed for the end-users.

Location: Virtual; primary duty station in Washington DC.

Project URL: Internal to the U.S. Forest Service. A private demonstration may be allowed.
(if applicable)

Project Manager / Supervisor: Zahid Chaudhry

Phone Number: 971.219.8382

Email Address: Zahid.chaudhry@usda.gov

Section 4.1.2 Debugging Code for existing systems within Microsoft Visual Studio 2013. Documenting code changes consistently throughout the development

Project Description:

The Cynerge development team completed and continues to support the FIA-BOSS Application modernization effort. This project includes full design, process analysis, application development, data-migration, testing, and operational support. Cynerge built the FIA-BOSS Application using Agile methodologies. All code is thoroughly and rigorously tested in Cynerge's Continuous Integration/Continuous Design (CI/CD) pipeline. User stories (requirements) are the first step for all code changes. GitHub is used as the code repository and to document user stories that are fully traceable, end-to-end. The team documents the user request(s) and end-state goal or action that they want the application to perform, along with acceptance criteria, in our code repository. After assignments are issues, our developers use Git code branching techniques to manage the changes and new features that were documented in the user stories. The code branches with required peer reviews and releases are linked to the user stories, with full traceability. All approved code merges undergo a peer review which includes documentation updates inside of the codebase, readme, or wiki. The development team uses Visual Studio and Visual Studio Code to write, debug, and review peer code before any deployment efforts. The developers also use code commenting to ensure that others can follow their approach.

EXHIBIT B – Required Documentation Verification Form

Section 4.1.2 - Debugging Code for existing systems within Microsoft Visual Studio 2013. Documenting code changes consistently throughout the development process

Previous Project: U.S. Forest Service Forest Inventory & Analysis (FIA) Business Operations Software System (BOSS)

Project Start Date: March 2018 Date Completed: 2021

Project Description:

See next page

Contractor's Role:

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Location: Virtual; primary duty station in Washington DC.

Project URL: Internal to the U.S. Forest Service. A private demonstration may be allowed.
(if applicable)

Project Manager / Supervisor: Zahid Chaudhry

Phone Number: 971.219.8382

Email Address: Zahid.chaudhry@usda.gov

Section 4.1.2 Working on a team with business analysts to define new features that the contractor must then code and integrate for existing systems

Project Description:

FSApps is an authentication service that enables U.S. Forest Service applications to quickly enable two-factor authentication for end-users with an approach that meets USDA regulations. FSApps is built as a consumable authentication service that developers integrate with their applications. This reduces their overall development effort while ensuring that they can meet all security requirements. Starting in 2018, the Cynerge team was asked to transition into the effort in late 2019 and is currently providing a senior developer to manage and conduct application development efforts for the project. Our developer is currently working on migrating a web portal for the Chief Financial Officer (CFO) Financial Officer (CFO) with the FSApps Service. Recently, Cynerge completed the addition of reporting elements to the backend for end users. We are now working to build out a reporting module to generate reports in excel or PDF. We are working to onboarding nearly 50 applications from a legacy authentication service to the FSApps Service.

Section 4.1.2 -Working on a team with developers to upgrade and configure existing code

Previous Project: **U.S. Forest Service Open Forest e-Permitting Application**

Project Start Date: **September 2018** Date Completed: **2021**

Project Description:

(See next page)

Contractor's Role:

Requirements analysis, application development, application testing.

Skillsets Utilized:

(See next page)

Location: **Virtual; primary duty station in Washington DC.**

Project URL: **<https://openforest.fs.usda.gov/>**
(if applicable)

Project Manager / Supervisor: **Zahid Chaudhry**

Phone Number: **971.219.8382**

Email Address: **Zahid.chaudhry@usda.gov**

Section 4.1.2 Working on a team with developers to upgrade and configure existing code

Project Description:

The Cynerge team was brought into this project in the fall of 2018, over a year after the project started. The team had to quickly pick up the development processes and codebase that the initial team had designed and written. The project team also had to migrate from what was determined to be unsecure development practices into secure coding procedures that meet USDA regulations, which we successfully completed. As the first two-way interaction-focused, public-facing U.S. Forest Service application, Open Forest will strengthen the connection between the public and the National Forests. The application will broaden and increase the public's responsible access to public lands through online availability; a predictable, responsive, and friendly experience; and reduced administrative burden. These enhancements will drive increased customer satisfaction and the quality of public engagement. This project is building a culture in the U.S. Forest Service that welcomes the public consistently (across units, despite being decentralized), focuses on customer service that connects people to the land and is open to change.

Skillsets Utilized:

Cynerge provided the lead application developers for a public-facing permit service for the U.S. Forest Service. This application employs extensive Javascript, utilizing Angular and Node.js, for the framework. All data is stored in a SQL database, leveraging Sequelize to translate the Node.js data to SQL data. XML is used to transmit encoded payment transactions to Pay.gov, which is the Federal Government standard for payment processing. The entire application uses custom CSS and CSS pre-processors such as SASS.

EXHIBIT B – Required Documentation Verification Form

Section 4.1.2 -Software testing, including system integration and regression testing, to ensure application changes continue to meet the business needs

Previous Project: U.S. Forest Service Continuous Integration/Continuous Delivery Project

Project Start Date: August 2019 Date Completed: 2021

Project Description:

(See next page)

Contractor's Role:

(See next page)

Skillsets Utilized:

Program management, project management, requirements analysis, process analysis, application development, application testing.
The CI/CD project is meant to work with several different languages and technologies. Currently, we support over 20 languages, including Visual Basic, Javascript, Java, XML, CSS, HTML, C, C++, and C#. The project uses Github, Jenkins, Selenium, Sonarqube, Pa11y, Lighthouse, Artifactory, and other software components to support the end-to-end process.

Location: Virtual; primary duty station in Washington DC.

Project URL: Internal to the U.S. Forest Service. A private demonstration may be allowed.
(if applicable)

Project Manager / Supervisor: Tah Yang

Phone Number: 703.605.4547

Email Address: tah.yang@usda.gov

Section 4.1.2 -Software testing, including system integration and regression testing, to ensure application changes continue to meet the business needs

Project Description:

The CI/CD project was tasked with establishing a repeatable, automated method that builds, tests, packages, and deploys application code and infrastructure configurations quickly and securely, at scale. The Cynerge team successfully completed the design and implementation of the CI/CD process for the U.S. Forest Service and have instantiated the use of the process with 11 applications so far. More applications are being added to the testing process on a monthly basis. The Cynerge team added security tests, embedded both security and accessibility tests to the automated process, and defined pass/fail thresholds. Now the project team can complete these tests and provide transparent feedback in minutes, rather than the weeks it took prior. We have also added new tests that, despite being required by USDA regulation, were not previously conducted. The Cynerge team is now adding additional tests to include an automated unit and regression testing. Our overall responsibility will be to expand the usage of this process to over 200 applications in use at the U.S. Forest Service and supports over 20 languages such as Visual Basic, Javascript, Java, XML, CSS, HTML, C, C++, and C#.

Contractor's Role:

Cynerge is responsible for the analysis, development, implementation, and support of the automated testing and release process within the U.S. Forest Service Chief Information Officer's applications