



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 6

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 702868

SO Doc Code: CRFQ

Procurement Type: Central Contract - Fixed Amt

SO Dept: 1300

Vendor ID: 000000227149



SO Doc ID: STO2000000002

Legal Name: PREQUEL SOLUTIONS LLC

Published Date: 6/2/20

Alias/DBA:

Close Date: 6/10/20

Total Bid: \$328,300.00

Close Time: 13:30

Response Date: 06/02/2020



Status: Closed

Response Time: 10:17

Solicitation Description: Addendum No 2 Supplemental Staffing for Microsoft Applicatio



Total of Header Attachments: 6

Total of All Attachments: 6



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

State of West Virginia
Solicitation Response

Proc Folder : 702868

Solicitation Description : Addendum No 2 Supplemental Staffing for Microsoft Applicatio

Proc Type : Central Contract - Fixed Amt

Date issued	Solicitation Closes	Solicitation Response	Version
	2020-06-10 13:30:00	SR 1300 ESR06012000000007120	1

VENDOR

000000227149

PREQUEL SOLUTIONS LLC

Solicitation Number: CRFQ 1300 STO2000000002

Total Bid : \$328,300.00

Response Date: 2020-06-02

Response Time: 10:17:38

Comments: PREQUEL SOLUTIONS is a CERTIFIED WOMEN OWNED BUSINESS ENTERPRISE and requests preference under W. Va. CSR 148-22-9.

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Signature on File

FEIN #

DATE

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	2000.00000	HOUR	\$64.700000	\$129,400.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description : Year 1 / Individual 1

Comments: Jeewan Khadka is Individual #1.
PREQUEL SOLUTIONS is a CERTIFIED WOMEN OWNED BUSINESS ENTERPRISE and requests preference under W. Va. CSR 148-22-9.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Temporary information technology software developers	2000.00000	HOUR	\$64.700000	\$129,400.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description : Year 1 / Individual 2

Comments: Ramya Kamma is Individual #2.
PREQUEL SOLUTIONS is a CERTIFIED WOMEN OWNED BUSINESS ENTERPRISE and requests preference under W. Va. CSR 148-22-9.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Temporary information technology software developers	500.00000	HOUR	\$69.500000	\$34,750.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description : Three (3) Month Renewal Option
Individual 1

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Temporary information technology software developers	500.00000	HOUR	\$69.500000	\$34,750.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description : Three (3) Month Renewal Option
Individual 2



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

State of West Virginia
Request for Quotation
34 — Service - Prof

Proc Folder: 702868

Doc Description: Supplemental Staffing for Microsoft Application Development

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2020-05-15	2020-06-01 13:30:00	CRFQ 1300 STO2000000002	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Name, Address and Telephone Number:

Prequel Solutions LLC
PO Box 2
Canonsburg, PA 15317
724 820-1575

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Signature X

FEIN #

80-0077634

DATE

6/2/2020

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:**Request for Quotation**

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia State Treasurer's Office (STO or Agency) to establish a contract for Supplemental Staffing Services for Microsoft Application Development per the specifications and terms and conditions as attached hereto.

INVOICE TO		SHIP TO	
WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE		WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE	
CHARLESTON	WV25304	CHARLESTON	WV 25304
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Temporary information technology software developers	2000.00000	HOURL		

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :
Year 1 / Individual 1 Jeewan Khadka is Individual #1

INVOICE TO		SHIP TO	
WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE		WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE	
CHARLESTON	WV25304	CHARLESTON	WV 25304
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Temporary information technology software developers	2000.00000	HOURL		

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :
Year 1 / Individual 2 Ramya Kamma is Individual #2

INVOICE TO		SHIP TO	
WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE		WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE	
CHARLESTON	WV25304	CHARLESTON	WV 25304
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Temporary information technology software developers	500.00000	HOUR		

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

Three (3) Month Renewal Option
Individual 1

INVOICE TO		SHIP TO	
WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE		WEST VIRGINIA STATE TREASURERS OFFICE 322 70TH ST SE	
CHARLESTON	WV25304	CHARLESTON	WV 25304
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Temporary information technology software developers	500.00000	HOUR		

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

Three (3) Month Renewal Option
Individual 2

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.

☒ A pre-bid meeting will not be held prior to bid opening

☐ A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting
Revised 01/09/2020

are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: 05/22/2020 @ 3:00 P.M.

Submit Questions to: Melissa Pettrey, Senior Buyer
2019 Washington Street, East
Charleston, WV 25305
Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)
Email: melissa.k.pettrey@wv.gov

5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

6. BID SUBMISSION: All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile.

The bid delivery address is:
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID: Supplemental Staffing/MS Application Development
BUYER: Melissa Petrey, Senior Buyer
SOLICITATION NO.: CRFQ STO2000000002
BID OPENING DATE: 06/01/2020
BID OPENING TIME: 1:30 P.M.
FAX NUMBER: 304-558-3970

Revised 01/09/2020

The Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. Submission of a response to an Expression of Interest or Request for Proposal is not permitted in wvOASIS.

For Request For Proposal ("RFP") Responses Only: In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus N/A convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE: (This only applies to CRFP)

☐ Technical

☐ Cost

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: 06/01/2020 @ 1:30

Bid Opening Location: Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

9. BID FORMATTING: Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

10. ALTERNATE MODEL OR BRAND: Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the

Revised 01/09/2020

equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

☐ This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.

14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

15. PREFERENCE: Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at:

<http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf>.

15A. RECIPROCAL PREFERENCE: The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: <http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf>.

16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or

minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.

18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.

19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform, or lacks the integrity and reliability to assure good-faith performance.”

20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b.”

21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor’s entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled “confidential,” “proprietary,” “trade secret,” “private,” or labeled with any other claim against public disclosure of the documents, to include any “trade secrets” as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

22. INTERESTED PARTY DISCLOSURE: West Virginia Code § 6D-1-2 requires that the vendor submit to the Purchasing Division a disclosure of interested parties to the contract for all contracts with an actual or estimated value of at least \$1 Million. That disclosure must occur on the form prescribed and approved by the WV Ethics Commission prior to contract award. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

23. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☒ **Term Contract**

Initial Contract Term: This Contract becomes effective on UPON AWARD and extends for a period of ONE (1) year(s).

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to ONE (1) successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☐ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within _____ days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that maintenance, monitoring, or warranty services will be provided for _____ year(s) thereafter.

☐ **One Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☐ **Other:** See attached.

4. NOTICE TO PROCEED: Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☒ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☐ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute a breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

☐ **BID BOND (Construction Only):** Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

☐ **PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.

☐ **LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.

☐ **MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

☐

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☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below and must include the State as an additional insured on each policy prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of: One Million minimum per occurrence.

☒ **Automobile Liability Insurance** in at least an amount of: One Million minimum per occurrence.

☒ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: One Million minimum per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☒ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: \$250,000 minimum per occurrence.

☒ **Cyber Liability Insurance** in an amount of: One Million minimum per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: _____ per occurrence.

☐ **Aircraft Liability** in an amount of: _____ per occurrence.

☐☐☐☐

Notwithstanding anything contained in this section to the contrary, the Director of the Purchasing Division reserves the right to waive the requirement that the State be named as an additional insured on one or more of the Vendor's insurance policies if the Director finds that doing so is in the State's best interest.

9. WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. [Reserved]

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ N/A _____ for _____

☐ Liquidated Damages Contained in the Specifications

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence with regard to all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. PURCHASING AFFIDAVIT: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Purchasing Division affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.

38. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE: This Contract may be utilized by other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"), provided that both the Other Government Entity and the Vendor agree. Any extension of this Contract to the aforementioned Other Government Entities must be on the same prices, terms, and conditions as those offered and agreed to in this Contract, provided that such extension is in compliance with the applicable laws, rules, and ordinances of the Other Government Entity. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.

39. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

40. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☒ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.requisitions@wv.gov.

41. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision. The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Revised 01/09/2020

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

42. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more of such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
- c. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
- d. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

43. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a

“substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

44. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the vendor must submit to the Agency a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-award interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

45. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

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.

Joe Falascino, Controller

(Name, Title)

(Printed Name and Title)

PO Box 2, Canonsburg, PA 15317

(Address)

724 820-1840 voice, 724 820-1827 fax

(Phone Number) / (Fax Number)

jfalascino@prequelsolutions.com

(email address)

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.

Prequel Solutions LLC

(Company)

 Managing Member

(Authorized Signature) (Representative Name, Title)

Mohylyn Yocca

(Printed Name and Title of Authorized Representative)

6/2/2020

(Date)

724 820-1575 724 820-1827 fax

(Phone Number) (Fax Number)

REQUEST FOR QUOTATION
Supplemental Staffing for Microsoft Application Development

SPECIFICATIONS

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia State Treasurer's Office (STO or Agency) to establish a contract for Supplemental Staffing Services for Microsoft Application Development.

- 1.1 **OVERVIEW:** The STO has a variety of legacy web and desktop applications that need to be reviewed for compliance with modern software development standards and compliance with modern security standards. Due to the number of developers that have worked in the Agency over the past 10-20 years, these applications may or may not have source code available. In the absence of source code, applications will need to be reviewed from a functionality standpoint and recreated from scratch.

The STO is in the process of implementing a new source code control system utilizing GitHub Enterprise server on premise. The STO does not currently have a code repository solution as the legacy system that was in use had issues that made it unusable. All the source code for STO applications, for which source code is available, is currently stored either on a server or on a developer's workstation or network drive.

It is estimated that this project will take 12-24 months to complete. If additional time/work is required to complete beyond one year, the Agency and Vendor will mutually agree upon a renewal for a three-month cycle but in no case shall the total project exceed 24 months.

It is anticipated that this project will begin no later than July 1, 2020

2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.

- 2.1 **"Contract Services"** means the professional application developer supplemental staffing services as more fully described in these specifications.
- 2.2 **"Pricing Page"** means the pages, contained wvOASIS or attached hereto as Exhibit A, upon which Vendor should list its proposed price for the Contract Services.
- 2.3 **"Solicitation"** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

REQUEST FOR QUOTATION
Supplemental Staffing for Microsoft Application Development

3. QUALIFICATIONS: Vendor, or Vendor's staff if requirements are inherently limited to individuals rather than corporate entities, shall have the following minimum qualifications:

- 3.1. Individuals must have current Microsoft .NET web development experience and provide examples of recent projects undertaken, preferably with the bid response, or no later than two days upon request.
- 3.2. Individuals must have a minimum of five (5) years of recent, concurrent Microsoft .NET web development experience.
- 3.3. Individuals must have experience with Microsoft Visual Basic and ASP development in the event an older legacy application is written in those languages. Any such application will need to be rewritten as a Microsoft .NET application.
- 3.4. Individuals must be familiar with Visual Basic .NET as most applications are written in the language and all new and modified source code will need to be written in this language.
- 3.5. Individuals must have experience with database-driven applications and knowledge of Microsoft SQL Server database design and development of stored procedures.
- 3.6. Individuals must have experience with using source code control, specifically GIT, and will be expected to 'check in' all source code, both reviewed and written, into the chosen code control repository solution
- 3.7. Vendor should provide resumes for the staff, preferably with the bid response, that will be assigned to the project and will be expected to provide references upon request. All such information shall be provided no later than two days of request.

4. MANDATORY REQUIREMENTS:

4.1 Mandatory Contract Services Requirements and Deliverables: Contract Services must meet or exceed the mandatory requirements listed below.

4.1.1 Individuals will be tasked with migrating all reviewed or re-written applications' source code into the new source code repository. It is anticipated that no more than two (2) individuals will be required for this supplemental staffing.

4.1.1.1 Write basic technical documentation for all reviewed or re-written applications, including such things as dependencies (files, jobs, etc.); purpose of the application; and any other important information about the application. This will be a 'living' document and will be stored in source code control alongside code.

REQUEST FOR QUOTATION
Supplemental Staffing for Microsoft Application Development

Vendor should type or electronically enter the information into the Pricing Pages through wvOASIS, if available, or as an electronic document

6. **PERFORMANCE:** Vendor and Agency shall agree upon a schedule for performance of Contract Services and Contract Services Deliverables, unless such a schedule is already included herein by Agency. In the event that this Contract is designated as an open-end contract, Vendor shall perform in accordance with the release orders that may be issued against this Contract.
7. **PAYMENT:** Agency shall pay by an hourly fee schedule on a monthly basis, as shown on the Pricing Pages, for all Contract Services performed and accepted under this Contract. Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.
8. **TRAVEL:** Vendor shall be responsible for all mileage and travel costs, including travel time, associated with performance of this Contract. Any anticipated mileage or travel-related costs may be included in the flat fee or hourly rate listed on Vendor's bid, but such costs will not be paid by the Agency separately.
9. **FACILITIES ACCESS:** Performance of Contract Services may require access cards and/or keys to gain entrance to Agency's facilities. In the event that access cards and/or keys are required:
 - 9.1. Vendor must identify principal service personnel which will be issued access cards and/or keys to perform service.
 - 9.2. Vendor will be responsible for controlling cards and keys and will pay replacement fee, if the cards or keys become lost or stolen.
 - 9.3. Vendor shall notify Agency immediately of any lost, stolen, or missing card or key.
 - 9.4. Anyone performing under this Contract will be subject to Agency's security protocol and procedures.
 - 9.5. Vendor shall inform all staff of Agency's security protocol and procedures.

REQUEST FOR QUOTATION
Supplemental Staffing for Microsoft Application Development

10. VENDOR DEFAULT:

10.1. The following shall be considered a vendor default under this Contract.

10.1.1. Failure to perform Contract Services in accordance with the requirements contained herein.

10.1.2. Failure to comply with other specifications and requirements contained herein.

10.1.3. Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

10.1.4. Failure to remedy deficient performance upon request.

10.2. The following remedies shall be available to Agency upon default.

10.2.1. Immediate cancellation of the Contract.

10.2.2. Immediate cancellation of one or more release orders issued under this Contract.

10.2.3. Any other remedies available in law or equity.

11. MISCELLANEOUS:

11.1. 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: Joe Falascino
Telephone Number: 724 820-1840
Fax Number: 724 820-1827
Email Address: jfalascino@prequelsolutions.com

REQUEST FOR QUOTATION
Supplemental Staffing for Microsoft Application Development

EXHIBIT A
PRICING PAGE

Quantities listed below are estimates only and shall be used for evaluation purposes only. The Agency will only pay for actual hours worked. The per-hour fee per individual shall be inclusive of all costs, administrative expenses, and travel related expenses per the general terms and conditions, and specifications. Note: Vendors are not permitted to change this Pricing Page.

PRICING HAS BEEN SUBMITTED ONLINE - OASIS

Year 1 – Individual # 1

2,000 hours (estimate)	x	\$ _____ hourly rate	=	\$ _____ annual cost (a)
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Year 1 – Individual # 2

2,000 hours (estimate)	x	\$ _____ hourly rate	=	\$ _____ annual cost (b)
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Year 2 – Optional Renewal Term (Three Month Cycles) – Individual # 1

500 hours (estimate)	x	\$ _____ hourly rate	=	\$ _____ each 3-month cost
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Year 2 – Optional Renewal Term (Three Month Cycles) – Individual # 2

500 hours (estimate)	x	\$ _____ hourly rate	=	\$ _____ each 3-month cost
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Award will be based on the total cost of Year 1 for both individuals.

Total Cost for Supplemental Staff (a+b)

\$ _____

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: Prequel Solutions LLC

Authorized Signature: Mollyn Fyous Date: June 2, 2020

State of Pennsylvania

County of Washington, to-wit:

Taken, subscribed, and sworn to before me this 2 day of June, 2020.

My Commission expires November 29, 2020.

AFFIX SEAL HERE COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Armando J. Falascino, Notary Public
West Bethlehem Twp., Washington County
My Commission Expires Nov. 29, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

NOTARY PUBLIC

Armando J. Falascino
Purchasing Affidavit (Revised 01/19/2018)

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)

- ☒ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5

- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ 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.

Prequel Solutions LLC

Company

Authorized Signature

June 2, 2020

Date

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

Lamar University

on the recommendation of the Faculty and under the authority of the
Board of Regents of The Texas State University System
hereby confers upon

Jeewan Khadka

the degree of

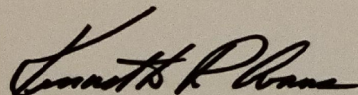
Master of Science

in

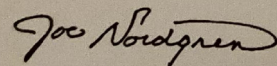
Computer Science

with all its honors, rights, and privileges.

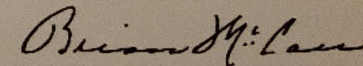
Given under the Seal of the University in Beaumont, Texas,
this twelfth day of May, Two Thousand and Seventeen.



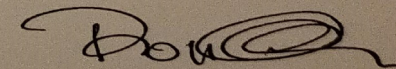
KENNETH R. EVANS, PRESIDENT



JOSEPH NORDGREN, INTERIM DEAN



BRIAN MCCALL, CHANCELLOR



ROSSANNA SALAZAR, CHAIRMAN OF THE BOARD OF REGENTS

PROFESSIONAL SUMMARY:

- **7+ years** of extensive experience in software development in different technologies
- Extensive programming experience in **.NET technologies** using **C#**
- Expertise in **Windows application design & development** using **WPF, XAML, Win Form**.
- Good experience in **Web development**
- Extensive experience using **WCF, ASP.NET, ADO.NET, Web API, Web Services**
- Good experience in **Multi-threading programming**
- Excellent analytical and problem-solving skills; able to identify problems and implement effective solutions
- Demonstrated proficiency in development using Microsoft.NET technologies like C#, .NET Framework, ASP.NET, ASP.NET MVC Framework, ADO.NET, AJAX, LINQ, VB.NET, Web Services, SOAP, SQL - Server, Oracle and Visual Studio.
- Experience with deploying applications to cloud platforms (**AWS, PCF, Docker**).
- Strong experience in working with **Oracle** and **SQL Server** database
- Good understanding of **Architectural** and **Design concepts, Object Oriented Programming (OOPS), Design Patterns, UML Diagrams**
- Worked with SQL server as the backend and have knowledge in writing various Queries, **Triggers**, Packages, **SSIS** and Stored procedures in **SQL Server**
- Strong exposure to **quality processes, Requirement analysis and management, Software Development Life Cycle (SDLC)**
- Proficient in developing web page quickly and effectively using, **HTML 5, CSS3, JavaScript and JQuery** and also experience in making webpage cross browser compatible
- Experience in **Angular JS** structural framework for dynamic web apps.
- Experience in Developing User Interface (**UI**) Rich Web Applications, and Web Service Applications using Front End/User Interface (**UI**) Technologies like Object Oriented **JavaScript, Type Script, Angular 2.0, Angular 7, Angular JS, Node JS, Bootstrap, Media Queries, CSS Frameworks, Java**.
- Standardised review process and speeded up development timeline with Code collaborator.
- Experienced in using web design tools like **Boot Strap**.
- Extensive experience in **code re-factoring, developing standards** and **mentoring** the team
- Keen in learning new technologies and quickly adapting to new environment
- Successfully delivered projects under strict schedules and quality control
- Active participant in organizational activities such as recruitment interviews, RFI, RFP, knowledge management initiatives

TECHNICAL SKILLS:

.NET Technologies	C#.NET, ADO.NET, ASP.Net, 2.0/3.5/4.0/5.0 WCF, LINQ
Web Technologies	XML, HTML, HTML5, CSS, JavaScript, AJAX, Silverlight, Web API
Databases	SQL Server 2000/2005/2008/2012, Oracle 8i/9i/10g, MS Access

Middleware	ADO.NET Web Services, Enterprise Library 5.0/4.0, Entity Framework, LINQ to SQL
Reporting Tools	SQL Server Reporting Services (SSRS 2008/2005), Crystal Reports(2010/9/8.5/8)
Application Servers	Windows Server 2008/2003/NT, Microsoft IIS
Operating Systems	Windows Vista/ XP/2000/2003
IDE	Visual Studio. Net 2003/2005/2008/2010,2012 SQL Server Management Studio
UI Web Technologies:	HTML4/5, CSS, Telerik Kendo UI, JavaScript, Bootstrap, MySQL, MVC Frameworks, Web API, D3.JS, Angular JS, Angular 2.0, Angular 7.
Browser:	All (IE, Firefox, Opera, Chrome, Safari)
RAD/IDE	Visual Studio 2015/2013/2012/2010/2008, Telerik RAD Controls, Kendo UI

Education: Bachelors of Information Technology from Purbanchal University Nepal
Masters in Computer Science Lamar University Beaumont TX

PROJECTS SUMMARY:

Client: DELL, Round Rock, TX
Project Role: .Net Developer

Dec 2019 - Current

Roles and Responsibilities:

- Developed Web forms for registration, to update the policy installment pages and application logic in ASP. Net, ASP.NET MVC 3.5, C#
- Involved in analysis, design and code the Accounting module using C# which deals with the clearing of checks, updating the corresponding policy in database.
- Used ADO.Net, LINQ in connecting to Data Access management with SQL Server.
- Designed and developed the C# components for implementing business logic which is used to do the transactions on database in middle tier using ADO.Net.
- Designed and developed the required SQL stored procedures.
- Deployment of WCF web services for online transactions using C# and exposed them through SOAP and HTTP.
- Extensively worked with Java script, hidden controls, Dropdown controls, masking, unmasking
- Maintained state of the Web Pages by using View State and Session Memory objects.
- Conducting meetings to establish and enforce best practices and standards.
- Actively participated in Peer reviewing of the code for maintaining the quality of coding and application.
- Extensive experience in D3.Js and Backbone.JS framework
- Experience working with JIRA management tools and confluence pages development.
- Designed web pages using ASP.net server controls, HTML, AJAX, CSS, and JavaScript.

- Implemented client side validation using JavaScript and server side validation using built in
- ASP.net validation controls and C#.
- Worked on exposing web services using WCF architecture for the client to communicate and exchange data and involved design of WCF based Service.
- Utilised Node.js, Socket.io, Redis, and Angular 7 for scalable website architecture
- Implemented Service Oriented Architecture (SOA) and used WCF to expose business logic as services and consumed those services from client applications.
- Used Update Panel, Update Progress with Data Grids in AJAX and JavaScript
- Developed web forms with C# to store the customer policy data in Database.
- Used Crystal Reports to generate reports with C#.

Client: US BANK, Minneapolis MN
Project Role: .Net Developer

Oct 2019 – Nov 2019

Roles and Responsibilities:

- Involved in code migration from SSIS packages to RESTful APIs.
- Used ADO.NET, LINQ in connecting to Data Access management with SQL Server.
- Designed and developed the C# components for implementing business logic which is used to do the transactions on database in middle tier using ADO.NET.
- Designed and developed the required SQL stored procedures.
- Worked in Agile development environment and participated in meetings and discussions with department heads, project managers, architects and co –developers.
- Actively participated in Peer reviewing of the code for maintaining the quality of coding and application.

Client: Federal Home Loan Bank of Dallas
Project Role: .Net Developer

March 2019 – Sep 2019

Roles & Responsibilities:

- Worked on **Software Development Life cycle (SDLC)** starting from Requirements gathering and performing objects oriented analysis, design and implementation Developing new **WCF Service** interface layer
- Implemented Agile Software Development methodologies to enable efficient and effective high-quality software development.
- Work with business units to get and understand SRS (Software Requirements specifications).
- Designed and developed utilities in **Windows Azure Service Bus** for exchanging messages/information between windows and legacy mainframe applications.
- Used **code first approach** and **Entity Framework 6.0** for Data Access Layer (**DAL**) and wrote SQL queries, User defined Functions and stored procedures.
- Used **JQuery, Angular 2/4+ and ng-grid JS** libraries as a part of client side development
- Developed the services of the application using **ASP.NET MVC Web API**.
- Designed **MVC design pattern** for **ASP.NET** application development using the **ASP.NET MVC framework**.
- Experience with various MVC Java frameworks like **Angular.JS, Node.JS, , D3.JS**, etc.
- Improved overall AD replication health by developing an automated process using PowerShell to ensure that the organizations site-link topology was consistent with intended design, resulting in stable and efficient replication environment.
- Worked with services like AWS ,EC2, Lambda, SES, SNS, VPC,CloudFront, CloudFormation etc

- Used Team Foundation Server (TFS) for Version Control, Team build, Project Management, Data Collection and Reporting.
- Developed visual components through **WPF** using **XAML** and **Expression Blend**.
- Experience in using Microsoft BI studio products like **SSIS, SSAS, SSRS** for implementation of ETL methodology
- Successfully developed crypto rest services using NodeJS and integrated services with HSM
- Experience in designing and developing middleware components for embedded systems, using **C, C++, STL**, multi threading (POSIX).
- Worked with Tempo Time tracking tools in JIRA.
- Established secure transfer between multiple modules with MoveIT.
- Coordinating and tracking projects for seamless releases using SVN.
- Experience with coding and scripting with C and C++.
- Created event driven Web Forms using **ASP.NET** and implemented Form Validations.
- Worked in Grid View Control throughout the application.
- Created and consumed Web Services using Visual **C#, ASP.NET**.
- Experienced in Developing and Enhancing Web forms, Master Pages, User Controls and Custom Controls by using **HTML, CSS, and ASP.NET Controls**.
- Implemented Server and Client side validations using **ASP.NET** validation controls and **JavaScript**.
- Extensively involved in developing components for Business Layer and Data Layer.
- Involved in managing the application using authentication and authorization techniques.
- Involved in testing like Unit test, Integration test, Acceptance test and Regression Testing using NUnit and responsible for writing test scripts and scenarios.

Environment: Visual Studio.NET 2017, C#, ASP.Net MVC 5.0/4.0, .Net Framework 4.5, Entity Framework 6.0, TFS, HTML5, d3.js, DOM, Ajax, JSON, JQuery, SSRS, SQL server 2016, Angular 2/4+.

Omgeo Boston MA

Jun 2016 – Mar 2019

Project Role: .Net Developer

Roles & Responsibilities:

- Involve in development of **Web Forms**, classes using **ASP.NET** that incorporates both **N-Tier Architecture**, and **Database Connectivity**
- Involve in gathering the **requirements, analysis, design & development** of the project.
- Design, develop and enhanced the application using **.Net Framework 4.0** and **Visual Studio 2012**.
- Work in creating a **Web API** with **Entity Framework**.
- Experience in Developing and Enhancing **Web forms, Master Pages, User Controls** and **Custom Controls** by using **HTML, CSS, and Asp.Net Controls**.
- Implement Server and Client side validations using **ASP.NET** validation controls and **JavaScript**.
- Develop **Agile Software Development** methodologies to enable efficient and effective high-quality software development.
- Worked on different aspects of .NET framework like **ASP.NET 4.0** and on **middleware ADO.NET**.
- Involve in designing of User Interface with **CSS, HTML** and **DHTML**.
- Develop Master page application using **Kendo UI**
- Use **Kendo UI** to change all Data grids.
- Responsible for designing the ASP.NET application Authentication using .NET Framework, Model View Controller (**MVC**)
- Configuring windows .Net servers to existing Pivotal Cloud Foundry (**PCF**).

- Experience in developing and deploying the micro services applications in Pivotal Cloud Foundry (Paas) **cloud** platform and **CF** command line interface.
- Develop presentation layer using **Server-controls, HTML Controls, User Controls** and Custom Controls.
- Create and deployed Web Services using **ASP.NET, SOAP** and **XML** for Pulling **Customer Service Records**.
- Modify **Web Services** to interact with the other applications and exposed them using **SOAP** and **HTTP**.
- Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as Amazon Web Services (AWS) .
- Built S3 buckets and managed policies for **S3** buckets and used S3 bucket and Glacier for **storage** and **backup** on **AWS** .
- Created Cross-Tab, Drill-down and Sub-Reports using **SSRS**.
- Configure **Azure** cloud service for end point deployment.
- Experience in database design and development using SQL **Azure**, Microsoft SQL Server, Microsoft Access. ing on same/different platforms using **WCF**.
- Extensively involved in developing components for **Business**
- Program **ADO.NET** for communication between application and database, used extensively **Data Grid, Data Set, Data Table, Data Views, Data Adapter** and **Data Readers** to render reports.
- Develop **Stored Procedures, Triggers, and Views** in **SQL Server 2012** for accessing the database.
- Use **SSIS** to validate, extract, transform and load data.
- Develop many **T-SQL** queries to fetch data as per the business requirements with proper tuning techniques.
- Implement and extensively use the **Object Oriented programming** concepts in **C#** and **ASP. Net 4.0**.
- Develop the **Classes, Objects, Dataset Classes** and **Methods** depending upon the business requirements.
- Involve in creating the logic for the several different modules.
- Use **XML** intensively to bind the data to the **web controls, data manipulation** and **to store data** and sent as Parameter to the stored procedures
- Implement **Serialization** and **De-serialization** of objects.
- Use **AJAX** to trade data with a **Web Server** without reloading the page.
- Use **Team Foundation Server (TFS)** for **Version Control, Team build, Project Management, Data Collection** and **Reporting**.
- **ADO.NET** was used to connect to the databases in a disconnected oriented architecture.
- Create event driven **Web Forms** using **ASP.NET** and implemented **Form Validations**.
- Extensively use **Grid View Control** throughout the application.
- Enhance the applications performance by constantly monitoring the queries by running Execution plans and query optimization techniques in **SQL server**.
- Work with testing team to fix the bugs as part of **Bug life cycle** and **Production support**.
- Involve in the **Unit and Integration testing**.

Environment: .Net Framework 4.0, C#.Net, Visual Studio 2012, ASP.NET 4.0, JavaScript, Angular, Telerik Grid UI , Entity Framework , Azure, WCF, IIS, Enterprise Library, XML, SOAP, SQL Server 2012

XL Health Corporation Baltimore MD

Jul 2014 – May 2016

Project Role: .NET Developer
Roles and Responsibilities:

- Worked extensively in an agile environment.
- Developed Windows based applications using VB C and VB.NET. Migrated code form VB to .NET.
- Performed **Custom Validation** and **Client Side Validations** by utilizing **Validation Controls** and JavaScript.
- Used **ASP.NET** that incorporates both **N-Tier Architecture**, and **Database Connectivity** to develop **Web Forms**.
- Used **Angular 2.0** framework and its ability to create simple and scalable code for SPA.
- Used AngularJS as development framework to build Single Page Application (SPA).
- Implemented AngularJS **provider** injection to handle the request to **WebAPI**
- Applied unit testing with Jasmine for AngularJS
- Created a **RESTful Web API** service using **ASP.NET Web API** to generate data
- Worked on .NET framework including **ASP.NET4.0** and on middleware.
- Created Razor views & partial views using **ASP.NET MVC4, HTML5, CSS3, and Angular JS, C #, VisualStudio2010 and Telerik** controls.
- Developed presentation layer using **Server-controls, HTML Controls, User Controls** and **Custom Controls**.
- Proficient in creating Services and Endpoints using **WCF**(Windows Communication Foundation)
- Design and develop parameterized reports, dashboards and scheduled reports using SSRS.Created Dropdown and Drill through reports using **SSRS**.
- Written stored procedures in **SQL** server.
- Imported data from flat files to SQL Server database using **SSIS**.
- Created event driven **Web Forms** using **ASP.NET** and implemented **Form Validations**.
- Extensively used **Grid View Control** throughout the application.
- Used **SOAP** to implement **Web Services** and Consumed and published **XML Web Services** in the application.
- Created **CSS** files to be applied to various **Web Forms** on the Web Pages.
- Write several **Stored Procedures** and **Triggers** on **Sql Server**.
- Created **Crystal Reports** on the web page by accessing the database.
- Involved in **Unit Testing** and **Integration Testing** of the entire application.
- Consolidate the controls from traditional MS Office based to TFS across project Management, **Business Analysis, Development** and **Production Support** disciplines.

Environment: .Net Framework 4.0, C#.Net, Visual Studio 2010 ASP.NET 4.0, JavaScript, Telerik, Entity Framework ,WCF, IIS, Enterprise Library, XML, SOAP, SQL Server 2008

Marsh& McLennan New York NY

Sep 2013 – Jun 2014

Project Role: .Net Developer

Roles& Responsibilities:

- Implemented extensive client/server validations using **ASP.NET** validation controls, JavaScript for client side validations and Custom Control validators for server side validations
- Involved in application design based on MVC, Factory Design Pattern and OOPs concept.
- Design and implement the GUI (ASP.NET), Webform controls and SQL Server used as the database.
- Worked with **Angular 2** modules, services, templates, directives, services and dependency injection to create a **SPA**.
- Worked extensively on **Angular 2/ Typescript** SPA domains.

- Participated in architectural discussions and developed application software using proven agile development practices including Test-Driven Design/Development and Continuous Integration.
- Created ASP.NET Web forms and server controls to display dynamic data obtained through the use of Microsoft ADO.NET and Data binding.
- Developed Connectors using **SSIS** for connecting to relational databases, to run SQL commands and to perform maintenance and transfer tasks.
- Wrote event based code in C# using server controls like Data grid and Data List.
- Used **CSS (Cascading Style Sheets)** for branding purposes and user look and feel.
- Made use of Content Management System (CMS) in order for modifications in the content, removal of content from a website and updates whenever needed.
- Implemented **BLL (Business Logic layer) and DAL (Data Access Layer) in C#**.
- Developed compiled modules for exception handling.
- Page Caching & Fragment Caching mechanism was implemented in multiple web pages
- Published and Consumed Web services to retrieve various accounts information
- Implemented Stored Procedures, Joins and Views in SQL Server.
- Implemented Pre Build & Post Build Events code for .NET Projects for above services to make life easy in Development environment.
- Involved in development of **N-tier Architecture**.

Environment: VB.NET Frame Work, Web Services, ASP.NET, C#.NET, ADO.NET, Data Grid, MS IIS 5.0, HTML, ADO, XML, XSL, Angular 1.4, SQL Server 2005, VB Script, JavaScript

PROFESSIONAL SUMMARY:

- Over 7+ years of IT experience in Analysis, Design, Development and Implementation of Web Applications, Client/Server Applications and Distributed Applications using MICROSOFT.NET FRAMEWORK (4.5/4.0/3.5) and associated technologies like C#, ASP.NET, ASP.NET MVC, SQL SERVER 2005/2008/2008 R2/2012/2014, Oracle 11g.
- Experience in Design, Development and Deployment of High-Performance, Scalable, Distributed ASP.NET MVC Applications and following Software Development Life Cycle (SDLC) namely Agile or Waterfall models.
- Experience in implementation of N-Tier Architecture in Windows and Web based, Client/Server, internet/intranet and distributed applications in Microsoft Technologies.
- Extensive experience in developing Web applications using web technologies like JAVASCRIPT, JQUERY, XML,HTML, HTML5, CSS, CSS3, Bootstrap, Angular JS, AJAX, SOAP, LINQ, Web Services, WinForms, WCF, WPF, Razor and SQL SERVER 2005/2008/2008 R2/2012/2014 and Entity Framework 6.0 in creating reliable and interactive Web applications.
- Experience in developing User Interface for several modules of the application using Kendo UI with high data models,
- Worked mainly on C# 4.0 extensively on Windows Communications Foundation 4.0.
- Good experience working in .Net Core and Microservices.
- Experience in using Microsoft Azure Cloud Platform in creating PaaS model cloud applications.
- Experience in development of Hybrid Mobile Web-based application, Design and implementation of REST API using Web API.
- Hands of Experience in Database Design, writing complex Queries, Normalization, Stored Procedures, Indexes, Views, Functions, Triggers and Restore/Backup at Database level using T-SQL, PL/SQL, maintaining database and also experience in Query Optimization.
- Good knowledge on reporting and analysis using Crystal Reports, SQL Server Integration Services (SSIS) and SQL Server Reporting Services (SSRS).
- Experience in using Configuration management tools (Version Controllers) like TFS, Git Bucket, SVN and VSS.
- Good Knowledge in using test frameworks like NUnit, MSTest to implement automated test cases.

AREAS OF EXPERTISE:

- .NET and Web Technologies: .Net Core, Visual C#.NET, ASP.NET MVC, Web Services, .NET Framework 3.5/4.0/4.5, LINQ, WPF, WCF, Web API, MVC, MVVM, Visual Basic.NET, HTML5, , Angular 2.0, Bootstrap, JavaScript, jQuery, CSS3, CSS, Kendo UI, Entity Framework 6
- Programming Languages & Applications: C#.Net, VB.Net
- App/Web Servers: Internet Information and Server (IIS) 6.0/7.0/7.5, Microsoft Office Server 2007/ Windows Web Server 2003/2003 R2/2008/ 2008 R2

- Tools: SQL Server Management Studio, MS Visio, MS Office, SSIS, SSRS, SSAS, Crystal reports, SOAP UI
- Databases: Microsoft SQL Server 2005/2008/2008 R2/2012/2014, LINQ, MS Access, DB2, MongoDB, TSQL, PL/SQL, Oracle 9i/11g.
- Packages: MS-OFFICE
- Source Control: Git Bucket, TFS, SVN, VSS

EDUCATION:

- Bachelors of Technology In the Engineering Institute – Srkit, India – 2013
- Masters in Computer Science from Kent State University, Kent, Ohio – Dec. 2016

EXPERIENCE:**Conduent Inc., CaryNC (Remote)****06/19 - Present****Sr. .NET Developer**

- Involved in the complete Software Development Life Cycle (SDLC) including Analysis, Design, Implementation, Testing and Maintenance with Agile Methodology.
- Created a Supervisor role, which has access to tools to assign the routes schedule.
- Designed and developed Entity Framework 6.0 Data-First approach with Repository-Pattern based backend and used RESTful and Web API as transaction and communication technology to the client-side.
- Design, build, and maintain efficient, reusable, and reliable code.
- Developed ASP.NET Core Web API based on departmental requirements and specifications.
- Worked with advanced concepts of ASP.NET Core MVC such as Models and Providers, Filters used for developing backend technology.
- Implemented Authentication, Authorization mechanisms for MFA using identity server, OAuth 2, Nancy, and extensive exception handling.
- Implemented convention-based CRUD actions like GET, POST, PUT and DELETE.
- Designed and created models, components, modules, and services to apply client-side logic and dependency injection using Angular 2.
- Implemented Client-side validation using Angular 2 Custom Form Validation with ng-show and ng-hide.
- Developed the front-end of the web application using Angular 2, HTML5, CSS3, AJAX, Bootstrap3/2 and jQuery 5.0/4.1.
- Implemented LINQ Query operations like Grouping, Ordering and Filtering operations to access database for search of routes, drivers and packages.
- Wrote Puppet manifests and modules to deploy, configure, and manage servers
- Automated build and deployment using Jenkins to reduce human error and speed up production processes
- Reduced deployment time for critical agile project infrastructure from 1 month to 2 days
- Installed and configured Nagios to constantly monitor network bandwidth, memory usage, and hard drive status

- Developed various Stored Procedures for the data retrieval from the database and generated different types of reports using SQL Reporting services (SSRS).
- Implemented JWT Token based authentication to secure the ASP.NET Core Web API and provide authorization to different users.

Environment: C#, ASP.NET Core 2.0, ASP.NET Core WEB API, Entity Framework Core 2.0, Angular 2, Bootstrap 3.3.7, jQuery, JavaScript, HTML, JWT Token, GIT, Azure, Visual Studio 2015, SQL Server 2014/2012, SSRS, IIS 7.0, Microsoft Visio 2012, DevOps

Ryder Logistics Systems, Miami, FL**03/18 – 03/19**Sr. .NET Developer

- I am responsible for providing application software support services and technical support in defined projects.
- Worked on Agile Methodology to achieve smooth collaboration between self-organizing, cross functional teams.
- Participated in daily Scrum and weekly meetings with the project manager and architects to meet expectations and deadlines.
- Extensively involved in developing components for Business Logic and Data tier using C#, ASP.NET MVC, and ADO.NET.
- Implemented CRUD functionality with Entity framework in ASP.NET MVC and implemented sorting, filtering and paging with Entity framework in MVC.
- Developed ASP.NET WEB APIs and involved in pre-testing using POSTMAN.
- Maintained state of the Web pages by using View State and Session Memory objects.
- Responsible for developing the reusable Components on UI (Razor Views) by developing the Partial Views, View starts, and reusable components for implementing the business rules with C# and OOPS Concepts.
- Implemented various Angular JS directives, filters, routing and services to implement better application functionality and performance.
- Implemented enhanced user interfaces to enable the inputs of additional personal information to generate insurance plan using HTML5, CSS3, jQuery, and Angular JS.
- Extensively used Angular JS UI for ng-grid and UI components and responsible for making AJAX Calls for the UI Interactions to the Controller Actions using jQuery and getting the data back as JSON and parsing it onto the UI.
- Implemented AJAX controls for partial page updates and to decrease the response time on the pages.
- Worked on .NET security features such as Form-Based Authentication and Role-Based Authorization.
- Implemented OAuth to provide authentication and authorization to secure the Web API.
- Designed database in SQL Server and created stored procedures, functions, views to reduce the complication of front-end SQL queries and triggers to enforce entity relationships.
- Worked on TFS for version control, Code Review and for automatic builds and continuous Integration.
- Performed Unit testing using NUnit, Integration Testing and System Testing.

Environment: .NET Framework 4.5, C#5.0, ASP.NET MVC 5.0, Web API, WCF, LINQ, Web Service, OAuth, Visual Studio 2015, SQL Server 2014/2012, Entity Framework, Angular JS, Bootstrap 3.3.7, jQuery, JavaScript, AJAX, HTML, POSTMAN, TFS

Comerica Bank, Detroit, MI
Sr. .NET Developer

08/17 – 02/18

- Interacting with business users to understand the business flow, help in gathering business requirements for application development, migration and general advisory services.
- Responsible in Development, Testing, Deployment and maintenance of high-performance, scalable, .NET web service Application LSAS a large WCF and ASMX web services infrastructure with 10+ Web logic clustered domains having 100+ web services by using software life cycle.
- Worked independently in the process of LSAS application development, enhancement and also involved in migration to shared server that use F5 load balancing environment.
- Created WCF Services responsible for communicating and providing real time data from integrated server to Client Application.
- Used SOAP UI&SOA Cleaner Express tool for testing WCF Services.
- Established communication between different applications running on same/different platforms using WCF.
- Actively been part of team that has been doing a project called Tech Refresh which was migration of LSAS from Windows Server 2003 to Windows Server 2008.
- Developed a RESTful Web Service for integration with a Java based Web Service using JSON Serialization and De-Serialization responsible for communicating and providing real time data from integrated server to Client Application.
- Worked on Remediation of few web service calls of LSAS to use RESTful Web Service as an enhancement instead of using old SQL stored procedures.
- Involved in Design and Development of a new logging tool to trace all XML request and response of all ASMX and WCF Web Services to enhance error capturing.
- Experience working with Telerik reporting tool for performing the export and import functionalities in various formats like CSV, PDF, or Excel Spread sheets etc
- Designed Application Architecture diagrams using MS Visio by analyzing the code written in VB.NET, C# for better understanding end to end flow of application.
- Worked with Message Queuing (MSMQ).
- Implemented BDD tests using Cucumber by writing behaviors and step definitions.
- Performed Defect Tracking & Management in Tracker.
- Worked on investigating outstanding issues in Production and Test Environments of application by analyzing root causes and possible resolution steps.
- Designed Game plans for the steps and time frames to be followed during production deployment of application.
- Worked with offshore team and monitor the work closely.

Environment :ASP.Net MVC, VB.Net, C#, Visual Studio 2015, JQuery, Json, Ajax, Linq, WCF Services, ASMX, Angular Js, Asp.Net Core, XML, XPATH, MSMQ, SOAP UI,SOA

Architecture, SOAP, WinForms, Windows service, Rest API, Entity Framework, React JS, TFS, N-Tire architecture, SQL Server 2012, Bootstrap, SSIS, SSRS, Windows Azure, Internet Information Services (IIS) 7.5.

Mayo Clinic, Rochester, MN
Sr. .NET Developer

02/16 – 07/17

- Designed and developed using Object-oriented Analysis and Design (OOAD) Concepts, including background and implementation in using Design Patterns.
- Developed Single Page Application using C#, ASP .NET MVC 5.2.2, Entity Framework, WCF and AngularJS.
- Extensively Worked on Agile and Scrum methodology.
- Developed user interface screens under VisualStudio.NET 2008 using C#.
- Support the use of Dependency Injection (Unity or similar) to inject objects into a class, instead of relying on the class to create the object itself.
- Worked with Kendo UI for Asp.Net MVC application for developing a dashboard which contains the all the data including internet packages, plans, offers, and price for each internet package
- Developed new user interface components for different modules using Kendo UI.
- Used Web API as an ideal platform in building Restful applications on .NET Framework.
- Involved in development of Presentation Layer, Business Logic Layer, Data Access Layer and various other tiers of N-Tired application.
- Used Model View Controller (MVC) design pattern to develop a complex web application, ASP.NET with C# as code behind and Angular JS is used for UI and client-side validation.
- Implemented and Consumed Web Services using WCF.
- Developed RESTFUL API for data population using Angular js.
- Developed user interface by using jQuery, React JS, JavaScript, Json, AJAX, and HTML5.
- Involved in writing SQL statements and stored procedures by using cursors, indexes for performing different searches.
- Used LINQ to SQL commands to retrieve, modify and insert data to the SQL Server database.
- Used ADO.NET for data retrieving, querying, storage and manipulation.
- Implemented N-Unit Testing to test the API.
- Worked with Team Foundation Server 2015 for version control of the source code along with the maintenance of the builds and the relevant documents of the same.
- Used Microsoft Azure active directory to provide access to cloud-based applications and configuring the web role and worker roles in Azure in the final release of the application.

Environment: C#, VB.Net, Visual Studio 2012 & 2015, SQL Server 2012, MVC 5.2.2, Entity Framework 6.0, .Net core framework, HTML, CSS, JavaScript, jQuery, Angular 1, Bootstrap, React JS, Web API, N-Unit testing, GitHub, AGILE methodology, JIRA.

Sr. .NET Developer

- Interaction with Business users to understand the business flow and gathered business requirements for the application development and general advisory services
 - Analysis and design Application Architecture for the Process Flow.
 - Created Technical Design Documents (BRD, FSD and other Technical documents) based on Functional requirements.
 - Development, Testing, Deployment and Maintenance of high-performance, scalable, distributed ASP.NET web application DART by using software life cycle.
 - Extensively involved in migrating VB.Net application to .Net Framework 4.0 C# ASP.Net application in IDE Visual Studio 2012.
 - Used Team Foundation Server (2012) for source code control.
 - Involved in the design and development of application on ASP.Net 4.5 Framework.
 - Designed User Interface with HTML5, CSS3, JQuery, Bootstrap, JavaScript and AJAX to enhance UI experience.
 - Responsible for developing Layout, Nested Layout Pages, Partial Views using CSS style sheets for having common layout
 - Created an internal Web Service, Web Forms using C# and JQuery that performs a search on various entities.
 - Actively involved in coding the business logic using C# and ADO.NET
 - Responsible in creating tables, writing SQL queries, stored procedures, Triggers, Functions, Indexes, defining roles, database users and assigning roles to the users by using SQL server 2008 R2.
 - Working independently in the process of application development, enhancement and also involved in migration to shared server, hosting and publishing.
 - Develop reports using complex formulas and to query the database to generate different types of reports using SSRS within the application.
 - Designed SSIS packages to transfer data between the databases, load data into databases, archival of old records, scheduling the jobs to do these tasks periodically
 - Performed both N-Unit Testing and end to end testing of the application using Selenium
- Environment:** C#, VB.Net, ASP.NET, Visual Studio 2012, SQL Server 2008 R2, Business Intelligence Data Tools 2008 R2, TFS 2012, MS-VISIO, .Net framework 4.0, C#.NET, HTML5, CSS3, JavaScript, JQuery, AJAX, Angular JS, Bootstrap, WCF, Web Services, Microsoft Azure, N-Unit testing, Selenium.

MasterCard, India**11/12 – 08/14****Jr. .NET Developer**

- Designed Application architecture for Process Flow, Security and Error Handling.
- Designed and developed enhanced and rich web pages by using MVC 4.0, C#, Entity Framework, HTML 5, CSS 3 and jQuery.
- Analyze and realize Use cases to Class Diagrams, Sequence diagrams and Component Diagrams.
- Developed Intake Personnel, Routing, Assignment and Adjustment Modules.
- Developed Web forms, Classes and Business Logic and Data Access Components.
- Developed Custom User Controls and Custom Data Grid along with rich UI screens.
- Developed XML Web Services to expose Data Services to client applications.

- Developed Reports and Coded for E-Mail enablement.
- Involved working with MVC design Pattern for the rich user interface
- Used .Net framework 4.0, n-tier architecture and Object-Oriented Methodologies for application development.
- Developed Web services for implementing the business logic
- Designed Class and use case diagrams using MS Visio
- Involved in using MVC pattern for the UI development
- Wrote extensive PL/SQL Packages, Procedures triggers for data retrieval and integrity.
- Coded Java Script for Lookups and Pop Up Screens.
- Wrote classes extensively to encapsulate business logic.
- Implemented WCF service and developed asynchronous call back method in class library project to communicate with different layer of the solution and by using Model View Controller (MVC) pattern and mainly used Angular JS for managing MVC components.
- Worked on migration from win forms to web forms using MVC pattern, VB.Net to C#.
- Server side working experience with IIS (Internet Information Services) manages hosting, publishing.
- Created generic secure and reusable data access components using ADO.NET objects such as Dataset, Data Adapter and Data Reader.
- Involved in Testing, Debugging and code review of the Application.
- Participated in various Client meetings with the team and the Project manager to discuss improvements/amendments in the development of the on base application.
- Monitored application software system to ensure proper execution and performance.
- Developed and Unit Tested application using N-Unit.

Environment: C#, ASP.Net MVC 4.0, XML Web Services, Razor, Entity Framework, WCF, ADO.NET, PL/SQL, MS-Visio, JavaScript, N-Unit, IIS, Windows 2008 R2 Server, SQL Server 2012.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

KAKINADA - 533 003 , ANDHRA PRADESH, INDIA

CONSOLIDATED MARKS MEMO / CREDIT / GRADE SHEETCUM No: **K00182882**

Bachelor of Technology Electronics & Communication Engineering

Serial No: _____

Name of the College: **S R K INST. OF TECHNOLOGY**Name: **KAMMA RAMYA**

Course & Year of Final Exam: _____

Hall Ticket No: **10X41A0470**Year of Admission: **2010 - 2011**

Grade: _____

B.Tech 2014
C (FAIR)

COURSE TITLE	INT. MARKS	EXT. MARKS	TOTAL	CREDITS	COURSE TITLE	INT. MARKS	EXT. MARKS	TOTAL	CREDITS
I YEAR									
1 ENGLISH-I	20	55	75	2	1 ENGLISH - II	18	70	88	2
2 MATHEMATICS-I	16	59	75	2	2 MATHEMATICS- II	17	35	52	2
3 ENGINEERING PHYSICS-I	15	43	58	2	3 ENGINEERING PHYSICS -II	25	39	59	2
4 ENGINEERING CHEMISTRY-I	16	47	63	2	4 ENGINEERING CHEMISTRY -II	20	27	47	2
5 C PROGRAMMING	14	48	62	2	5 ENGINEERING DRAWING	20	42	62	2
6 ENVIRONMENTAL STUDIES	16	51	67	2	6 MATHEMATICAL METHODS	13	42	57	2
7 ENG. PHYSICS & ENG. CHEMISTRY LAB	23	48	71	2	7 ENG. PHYSICS & ENG. CHEMISTRY LAB-II	24	47	71	2
8 ENGINEERING WORKSHOP LAB	15	45	60	2	8 ENGLISH COMMUN. SKILLS LAB	24	43	67	2
9 C PROGRAMMING LAB	20	42	62	2	9 IT WORKSHOP	20	48	68	2
10 ENGLISH PROFICIENCY LAB	22	47	69	2					
II YEAR									
1 PROB THEORY & STOCHASTIC PRO.	13	47	60	4	1 ELECTRONIC CIRCUIT ANALYSIS	17	30	47	4
2 SIGNALS & SYSTEMS	22	47	69	4	2 PULSE & DIGITAL CIRCUITS	18	44	62	4
3 ELECTRONIC DEVICES AND CIRCUITS	14	57	71	4	3 SWITCHING THEORY & LOGIC DESIGN	16	41	57	4
4 MANAG. ECONO. AND FIN. ANALYSIS	14	37	51	4	4 CONTROL SYSTEMS	15	40	55	4
5 ELECTRICAL TECHNOLOGY	16	45	61	4	5 ANALOG COMMUNICATIONS	15	55	70	4
6 NETWORK ANALYSIS	15	28	43	4	6 EMWTL	16	33	49	4
7 NETWORK AND ELECTRICAL TECH. LAB	23	40	63	2	7 ANALOG COMMUNICATIONS LAB	22	50	72	2
8 ELECTRONIC DEVICES AND CIR. LAB	21	44	65	2	8 ELECTRONICS CIRCUITS & PDC LAB	23	45	68	2
9 ENGLISH COMMUNICATION PRACTICE	18	45	63	1	9 ENGLISH COMMUNICATION PRACTICE LAB	23	46	69	1
III YEAR									
1 COMPUTER ARCHITECT & ORGANIZATION	13	29	42	4	1 MANAGEMENT SCIENCE	13	31	44	4
2 DIGITAL IC APPLICATIONS	13	29	42	4*	2 COMPUTER NETWORKS	17	29	46	4
3 LINEAR IC APPLICATIONS	17	37	54	4	3 MICROWAVE ENGINEERING	19	48	67	4
4 ELECTRONIC MEASU. AND INSTRU.	9	36	45	4	4 DIGITAL SIGNAL PROCESSING	16	46	62	4
5 ANTENNAS AND WAVE PROPAGATION	16	60	76	4	5 MICROPROCESSORS AND MICROCONT.	17	31	48	4
6 DIGITAL COMMUNICATIONS	7	35	42	4*	6 VLSI DESIGN	16	37	53	4
7 DIGITAL COMMUNICATIONS LAB	24	45	69	2	7 MICROPROCESSORS AND MICRO. LAB	25	41	66	2
8 IC APPLICATIONS LABS	18	43	61	2	8 ELECTRONIC COMP AIDED DESIGN LAB	20	40	60	2
IV YEAR									
1 OPTICAL COMMUNICATIONS	15	41	56	4	1 CELLULAR AND MOBILE COMM.	17	45	62	4
2 EMBEDDED SYSTEMS	15	42	57	4	2 SATELLITE COMMUNICATIONS	17	36	53	4
3 DIGITAL IMAGE PROCESSING	21	34	55	4	3 WIRELESS SENSOR NETWORKS	11	45	56	4
4 RADAR SYSTEMS	15	38	53	4	4 TV ENGINEERING	20	45	65	4
5 TELECOMMUNI. SWITCHING SYSTEMS	15	47	62	4	5 PROJECT	50	130	180	12
6 BIO-MEDICAL ENGINEERING	13	52	65	4					
7 DIGITAL SIGNAL PROCESSING LAB	20	46	66	2					
8 MICROWAVE AND OPTICAL COMM. LAB	20	42	62	2					

Number of Credits registered for: **208**Aggregate Marks Secured for best: **200 Credits 4013 out of 6025 (66.61 %)**

Date of Declaration of Result:

June 2014

(See overleaf for Instructions)

(*Courses registered but not counted for calculation of aggregate) **13/6/2014****CONTROLLER OF EXAMINATIONS**

Kent State University

This is to certify that
the Board of Trustees of Kent State University,
upon the recommendation of the Faculty, has conferred upon

Ramya Kamma
the degree of
Master of Digital Sciences

with all the honors, rights and privileges of that degree.

Presented this seventeenth day of December
two thousand and sixteen.

Larry Rallock
Chairperson, Board of Trustees

Hail N. Roberts
University Registrar



Bruce Wain
President of the University

Jeffrey Lee
Academic Director, School of Digital Sciences