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Go



Home



Personalize



Accessibility



App Help



About



Welcome, Lu Anne Cottrill

Procurement

Budgeting

Accounts Receivable

Accounts Payable

Solicitation Response(SR)

Dept: 1300

ID: ESR0604200000007253

Ver.: 1

Function: New

Phase: Final



Modified by batch , 06/10/2020

Header 1

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: 000000118062



SO Doc ID: STO2000000002

Legal Name: 22ND CENTURY TECHNOLOGIES INC

Published Date: 6/2/20

Alias/DBA:

Close Date: 6/10/20

Total Bid: \$450,000.00

Close Time: 13:30

Response Date: 06/09/2020



Status: Closed

Response Time: 16:46

Solicitation Description: Addendum No 2 Supplemental Staffing for Microsoft Applicatio

Total of Header Attachments: 1

Total of All Attachments: 1



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

**State of West Virginia
 Solicitation Response**

Proc Folder : 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 ESR06042000000007253	1

VENDOR
000000118062 22ND CENTURY TECHNOLOGIES INC

Solicitation Number: CRFQ 1300 STO2000000002

Total Bid : \$450,000.00 **Response Date:** 2020-06-09 **Response Time:** 16:46:15

Comments:

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

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Temporary information technology software developers	2000.00000	HOUR	\$90.000000	\$180,000.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :	Year 1 / Individual 1
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Temporary information technology software developers	2000.00000	HOUR	\$90.000000	\$180,000.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :	Year 1 / Individual 2
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Temporary information technology software developers	500.00000	HOUR	\$90.000000	\$45,000.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :	Three (3) Month Renewal Option Individual 1
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Temporary information technology software developers	500.00000	HOUR	\$90.000000	\$45,000.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :	Three (3) Month Renewal Option Individual 2
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22nd Century Technologies, Inc.

**State of West Virginia, Purchasing Department
Request for Quotation**

**Supplemental Staffing for Microsoft Application Development
CRFQ 1300 STO2000000002**

Due Date & Time: Wednesday, June 10, 2020, 13:30 p.m.

22nd Century Technologies, Inc.

Eva Gaddis-McKnight, Administrator

220 Davidson Avenue, Suite 118, Somerset, NJ 08873

T: 888-998-7284 | F: 732-537-0888 | @: govt@tscti.com

22nd Century claims that information contained in our proposal is confidential and proprietary. We believe that the data contained in the proposal as contact information of proposed staff, technical and management approach, proposed subcontractor and price quote. Our competitors to underprice us on future bids, reverse-engineer aspects of 22nd's approach, lure away subcontractors or key employees can use disclosure of this information. Thereby we request the government to provide us the opportunity to provide a redacted copy of our response for FOIA and protecting the undue advantage FIOA disclosure.

Cover letter

Attn: Department Of Administration
Purchasing Division
2019 Washington St E, Charleston WV 25305

Date: Jun 09, 2020

22nd Century Technologies, Incorporation (22nd Century) is pleased to respond to **Request for Quotation, CRFQ 1300 STO2000000002** for providing **IT Software Developer** issued by the **West Virginia Purchasing Division** on behalf of the **West Virginia State Treasurer's Office (STO)**.

22nd Century is a matured IT staffing company appraised at **CMMI Level 3**, and certified as an **ISO 9001:2015, ISO 20000-1:2011, and ISO 27001:2005** with **23 years of experience** in providing **Information Technology (IT) Staffing Services** to government agencies. Incorporated in 1997 in New Jersey as S-Corporation, with D&B Open rating score of 93, we have been successfully serving huge customer base with high level of customer satisfaction on over **200 contracts**.

Proposed Personnel

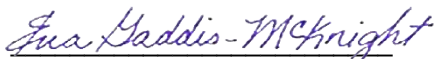
Name	Position	Relevant Years of Experience
Jacob Keecheril	Software Developer	Over 15 years
Walter W. Holliday		Over 15 years

Our proposed candidates have successfully performed similar services with various agencies across the nation. Our candidates are fully capable to provide required services to the STO for this project as per Qualification.

22nd Century hereby commits to perform all the work outlined in this Quotation. The attached 22nd Century response addresses all requirements identified in the solicitation as well as the addendum released. We agree to all the solicitation rules, procedures, terms and conditions specified in the solicitation.

Should you have any questions regarding this proposal, please feel free to contact me.

Sincerely,



Eva Gaddis-McKnight, Administrator

22nd Century Technologies, Inc.

T: 888-998-7284 | F: 732-537-0888 | @: govt@tscti.com

Table of Contents

Cover letter	2
Resume	6
Pricing	20
Purchasing Affidavit	21
Addendum Acknowledgement Form	22



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: Addendum No 2 Supplemental Staffing for Microsoft Applicatio

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2020-06-02	2020-06-10 13:30:00	CRFQ 1300 STO2000000002	3

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:
 22nd Century Technologies, Inc.
 220 Davidson Avenue, Suite 118, Somerset, NJ 08873
 T: 888-998-7284

FOR INFORMATION CONTACT THE BUYER

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

Jana Haddis-McKnight
 Signature X

22-3502121
 FEIN #

06/09/2020
 DATE

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

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.

Eva Gaddis-McKnight, Administrator

(Name, Title)

Eva Gaddis-McKnight, Administrator

(Printed Name and Title)

220 Davidson Avenue, Suite 118, Somerset, NJ 08873

(Address)

T: 888-998-7284 | F: 732-537-0888

(Phone Number) / (Fax Number)

govt@tscti.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.

22nd Century Technologies, Inc.

(Company)

Eva Gaddis-McKnight Eva Gaddis-McKnight, Administrator

(Authorized Signature) (Representative Name, Title)

Eva Gaddis-McKnight, Administrator

(Printed Name and Title of Authorized Representative)

06/09/2020

(Date)

T: 888-998-7284 | F: 732-537-0888

(Phone Number) (Fax Number)

Resume

Jacob Keecheril/ Software Developer

Senior .NET Developer with over 20 years of experience in design, development, implementation and testing of client-server, N-tier and web-applications across various platforms. Over 15 years of IT experience in RDBMS & Data warehousing, experience in design, development, testing, implementation and support of enterprise data warehouse. Experienced in Requirement Analysis, Test Design, Test Preparation, Test Execution, Defect Management, and Management Reporting.

Education

- P.G Diploma in Systems Management, NIIT, Bombay, 1989
- B.Sc in Physics, Kerala University, India, 1987

Technical Skills

VB.NET, ASP.NET, C#, JAVA, WCF, WPF, Silverlight, Share Point , .Net, SQL Server, SSRS, SSAS, MVC, JQuery, VSS, C, Aqua logic, Web Services, Custom Controls, COBOL, VB6, Clipper, SSIS, FoxPro, SDK, ORACLE, Crystal Reports, Visio, WINDOWS, UNIX, RS 232, Commerce Server, Internet Technologies. Very good knowledge of SAP Business Objects.

Professional Experience

IBusiness Solutions consulted to the following Clients

2000 - Present

Department of Labor and Industry, Harrisburg, PA

Aug 2018 – Present

Sr. Developer

Providing the code standard directed by Code dx (including Gendarme, FxCopby removing errors , warnings and standers set by the above. Modifying most of the pages for the security, Accuracy and Functionality by modifying the Dot net Code, Creating very complex reports, Jobs(SSIS), Store Procedures and functions for the following projects.

Bureau of Occupational and Industrial Safety (BOIS)

The Bureau of Occupational and Industrial Safety (BOIS) system administers and enforces safety standards related to asbestos occupations, boilers, building construction (Uniform Construction Code), elevators (uniform Construction Code), flammable and combustible liquid, lead occupations and liquefied petroleum gas.

ODHH

The Office for the Deaf & Hard of Hearing (ODHH) is an online system for the Pennsylvania Department of Labor & Industry that serves all 67 counties. ODHH is your first stop on the path to learn about anything and everything related to hearing loss, such as services, technology, sign language interpreters, or laws that require equal access for people who are deaf, deaf-blind or hard of hearing.

Mediation

Mediation is an online system providing mediation services to public sector parties. An amendment to the school code in 1992, known as Act 88*, provided additional strict time lines utilizing mediators within the public school setting. Additionally, mediation assistance has been provided for Act 111* police and fire fighter contract disputes when requested.

- Creating Web forms using ASP.NET.
- Designing and developing technical documents for the system
- Conducing many client meetings to gather business requirements for the system.
- Creating complex reports using SQL Server and SSRS and then projected to the user using VB.NET

and ASP.NET.

- Creating Store procedures and user-defined functions using SQL Server.
- Creating data flow diagrams, data mapping from Source to stage and Stage to Target mapping documents indicating the source tables, columns, data types, transformations required and business rules to be applied.
- Creating many jobs using SSIS for transferring the data from different platforms,
- Creating many complex reports using SSIS and SQL Server.
- Developing user friendly screens to projected data to the user using VB.NET and ASP.NET.
- Creating web services and consuming it for the incoming data and outbound data processes.
- Performing Data Analysis and Data validation by writing SQL queries.
- Creating indexes and modified existing store procedures for fastness and accuracy.

Environment: SQL Server 2016, SSIS, TFS, VB.NET, ASP.NET, SSRS, XML, Web Forms.

Department of Health, Harrisburg, PA

Jan 2016 – Jun 2018

Sr. Developer

National Electronic Diseases Surveillance System (NEDSS) To provide advanced web-based and client/server application development and support work associated as needed for the PA-NEDSS. Support, maintain, and deploy a large scale, mission critical internet technologies for use by more than 200 Hospitals and more than 250 Commonwealth licensed laboratories. The National Electronic Disease Surveillance System (NEDSS) is a national initiative driven by the Centers for Disease Control (CDC) to improve the timeliness, completeness, accuracy, and uniformity of surveillance data.

This was a Data migration from Oracle to SQL Server project.

- Migrated around 1200 Oracle Store programs to SQL Server platform.
- Fine-tuned the store procedure for better accuracy and speed.
- Created new functionalities using Dot net for the NEDSS Application.
- Made modifications in dot net for setting SQL Server instead of ORACLE.
- Handled escalated Support tickets till closure for MS Azure IaaS platform
- Created many SSIS packages for processing the data, data migration between oracle and sql server.
- Created & modified reports using SSRS.
- Used existing WCF to process processing the data.
- Used GIT for the Source Control. (For getting latest version, checking and Checkout for updating the changes)

Environment: SQL Server 2012, ORACLE, TOAD, SSIS, GIT, Windows PowerShell, VB.NET, ASP.NET, SSRS, XML, Web Forms.

NRA Harrisburg

Apr 2015 – Dec 2016

File Processing System(Team Lead/Sr. Developer)

This is an online system which processes the exchange of data with clients, FICO etc. The data is created in the form of XML, CSV and pipe delimited files by applying the business rules of the company and clients. The inbound data is then processed and updated to the Platinum database which is used to create payment reminders for the clients.

- Created complex reports using SQL Server and SSRS and then projected to the user using VB.NET and ASP.NET.
- Created Store procedures and user-defined functions using SQL Server.
- Created data flow diagrams, data mapping from Source to stage and Stage to Target mapping documents indicating the source tables, columns, data types, transformations required and business rules to be applied.
- Developed user friendly screens to projected data to the user using VB.NET and ASP.NET.
- Created web services and consumed it for the incoming data and outbound data processes.

- Created SSIS package to export local database Tables. Other files to Azure Database.
- Created indexes and modified existing store procedures for fastness and accuracy.
- Used GIT for the Source Control. (For getting latest version, checking and Checkout for updating the changes)

Environment: SQL Server 2012, SSRS, SSIS, Azure Cloud, GIT, VB.NET, ASP.NET, XML, Web Forms, Win forms

Department of Environment, Harrisburg, PA

Mar 2014 –Apr 2015

Sr .NET Developer

RCRAInfo Compliance Monitoring and Enforcement (CM&E)

The Resource Conservation and Recovery Act (RCRA) gives the US Environmental Protection Agency (EPA) the authority to regulate the generation, transportation, storage, treatment and disposal of hazardous wastes. Under a US Department of Energy/EPA interagency agreement, the Oak Ridge National Laboratory was assigned the responsibility of designing a distributed information system for EPA to facilitate the reporting of RCRA data from implementers to program management. One of the core automation needs was to develop an automated event tracking system for the RCRA compliance monitoring and enforcement (CM&E) program. The CM&E functions require data with complex many-to-many (N:M) relationships.

- Developed ETL processes using Store Procedures, PL/SQL, Functions to load data from various data sources to the staging table using OpenNode2 and RCRA Standard.
- Created services in OpenNode2 to process the above data using RCRA XML Schema so that the processes get automated.
- Developed ETL processes using Store Procedures, PL/SQL, and Functions to load data from various data sources to the staging table and automated it using Oracle Cloud.
- Created data flow diagrams, data mapping from Source to stage and Stage to Target mapping documents indicating the source tables, columns, data types, transformations required and business rules to be applied.
- Created SQL-Loader scripts to load legacy data into Oracle staging tables and wrote SQL queries to perform Data Validation and Data Integrity testing
- Developed shell scripts and services for Oracle Cloud/Grid for automating the loading (Bi-weekly) the staging tables using the developed scripts and setup automated emails.
- Worked on Performance Tuning of the complex transformations, mappings, sessions and SQL queries to achieve faster data loads to the data warehouse
- Developed application to view the status of submissions status, submission history and sending emails reports to users (SMTP), created various reports using SSRS.
- Created SSIS package to export local database Tables.
- Extracted large volumes of data feed from different data sources, performed transformations and loaded the data into various Targets.
- Created functions to unzip & zip file(s) and parse file to get the submission details through VB.NET.

Environment: Oracle 12c, Oracle Cloud/Grid, Shell Scripting, Java, MS Azure, OpenNode2, SSIS, TFS, VB.NET

Resource Conservation And Recovery Act Information (RCRA Handler)

RCRA Handlers the national program management and inventory system of RCRA hazardous waste handlers and is used by the EPA to support its implementation of RCRA, as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA). The system is primarily used to track a handler's permit or closure status, compliance with Federal and State regulations, cleanup activities, waste handler inventory, and environmental program progress assessment. Handlers can be characterized as fitting one or more of the following categories: treatment, storage, and disposal facilities (TSDFs), large quantity generators, small quantity generators, and transporters.

- Developed ETL processes using Store Procedures, PL/SQL, Functions to load data from various data sources to the staging table using OpenNode2 and RCRA Handler Standard.
 - Created services in OpenNode2 to process the above data using RCRA Handler XML Schema so that the processes get automated.
 - Designed for populating Tables for one time load and Incremental loads.
 - Created Java Functions inside Oracle database and then called by store procedure and functions to processes the data according to the business rules.
 - Maintained/updated system data flow chart, Visio documents, and system documentations
 - Created data flow diagrams, data mapping from Source to stage and Stage to Target mapping documents indicating the source tables, columns, data types, transformations required and business rules to be applied.
 - Developed application to view the status of submissions, how many records processed, rejected etc. and sending emails reports to users (SMTP), created various reports using SSRS.
 - Created functions to unzip & zip file(s) and parse file to get the submission details through VB.NET.
- Environment:** Oracle 12c, Shell Scripting, Java, OpenNode2, SSIS, TFS, VB.NET.

FacID Data Flow

Supported the data flow(Data Ware House) to the United States Environmental Protection Agency's (USEPA) Facility Registry System (FRS). This data exchange will utilize the latest FacID 3.0 XML Schema, and it will continue to send data residing in the administration's Environmental Health Warehouse (EHW).

- Developed ETL processes, stored procedures, functions, PL SQL, views using Oracle 12c, Java to develop DEP's data warehouse for the FRS system.
- Created services in OpenNode2 to process the above data FACID 3.0 XML Schema so that the processes get automated.
- Created Java Functions inside Oracle database and called by store procedure and functions to processes the data according to the business rule.
- Developed shell scripts and servicesfor Oracle Cloud/Grid for automating theloading (Bi-weekly) the staging tables using the developed scripts and setup automated emails.
- Performed Data Analysis and Data validation by writing complex SQL queries using TOAD against the ORACLE database.
- Generating Email Notifications through scripts that run in the Post session implementations.
- Worked on Performance Tuning of the complex transformations, mappings, sessions and SQL queries to achieve faster data loads to the data warehouse
- Developed application to view the status of submissions, how many records processed, rejected etc. and sending emails reports to users (SMTP), created various reports using SSRS.
- Created functions to unzip & zip file(s) and parse file to get the submission details through VB.NET.

Environment: Oracle 12c, Oracle Cloud/Grid, Shell Scripting, Java, OpenNode2, SSIS, TFS, MVC, JQuery, VB.NET, Web Forms

AQS (Air Quality System)

- Developed functions, Store procedures to create and refresh the AQS Data for Lead, PM 1.0, PM 2.5. CO etc.
- Created mapping using Map Force to create the XML

Environment: Oracle 12c, PL SQL, Store Procedures, Functions Map force.

Department of Health, Harrisburg, PA
Sr .NET Developer

Apr 2013 - Feb 2014

Vital Record System

This is an online system to track about the Local Registrar Reconciliation including Geographic,

Inventory, Payroll, Reconciliation, Audit and the Fatal Death system which includes Creation/Updating Death Certificate, Collection of Mothers/Fathers data, Fetus Details, Medical History, Hospital Info, Cause of Death, Parental Data etc. Loading and extracting data and the corresponding reports.

- Designed and developed technical documents for the system
- Developed User Interface using ASP.NET, VB.NET, web services.
- Converted existing modules from VB6 to Dot net.
- Created dynamic menu using XML.
- Involved in Performance Tuning of SQL Queries, Sources, Targets and sessions by identifying and rectifying performance bottlenecks.
- Developed complex stored procedures and user functions in SQL Server.
- Created SSIS Package to load data from Flat File, EXCEL to SQL Server 2012 using Lookup, Derived Columns, Condition Split, Term Extraction,
- Developing user friendly report modules using SSRS. i.e. Drill Down, Drill Through, Sub Reports, Charts, Table
- Designed and coded application components in an Agile environment utilizing a test driven development approach.
- Examined functional requirements by collaborating with external and internal customers.
- Developed Data access layer (DL) implemented using VB.NET with SQL Server 2012 database by creating functions, triggers and stored procedures in T-SQL.
- Created Test cases and Test scripts for System Integration Testing (SIT), User Acceptance Testing (UAT) and Unit Integration Testing.
- Done system integration with Team Foundation Server
- Used GIT for the Source Control. (For getting latest version, checking and Checkout for updating the changes)

Environment: SQL Server 2012, SSRS, SSIS, TFS, GIT, VB.NET, ASP.NET, JQuery, MVC, WCF, Web Services, XML, Web Forms, Win forms

PASSHE

Jan 2013 – Mar 2013

Sr .NET Developer/Lead

University Submission Status

This is an automated system which helps the user to retrieve data from the universities, applying business rules and re-submitting back to the universities. Through the system the user can track the status of the any submission, how many times submitted, Error tracking etc.

- Designed and developed technical documents for the system
- Developed User Interface using ASP.NET, VB.NET, web services.
- Developed complex stored procedures and user functions in SQL Server.
- Created SSIS Package to load data from Flat File, EXCEL to SQL Server 2012 using Lookup, Derived Columns, Condition Split, Term Extraction,
- Developing user friendly report modules using SSRS. i.e. Drill Down, Drill Through, Sub Reports, Charts, Table
- Designed and coded application components in an Agile environment utilizing a test driven development approach.
- Designed and developed GIS application for various universities comes under PASSHE.
- Examined functional requirements by collaborating with external and internal customers.
- Developed Data access layer (DL) implemented using VB.NET with SQL Server 2012 database by creating functions, triggers and stored procedures in T-SQL.
- Done system integration with Team Foundation Server
- Used GIT for the Source Control. (For getting latest version, checking and Checkout for updating the changes)

Environment: SQL Server 2012, WCF, SSRS, SSIS, GIT, TFS, VB.NET, ASP.NET, Web Forms

HR Systems

This is an integration system which retrieves data from SAP, apply business logics and updates corresponding the PSSHE system and creating user friendly reports such as Dual Employee, Employee Details, Employee Issues, Ethnicity, Graduate Assistants, Non Instructional reports by using SSIS, NET and SSRS.

- Designed and developed technical documents for the system
- Developed User Interface using ASP.NET, VB.NET, web services.
- Created Triggers to enforce data and referential integrity.
- Involved in Performance Tuning of SQL Queries, Sources, Targets and sessions by identifying and rectifying performance bottlenecks.
- Defined Check constraints, Business Rules, Indexes, and Views.
- Designed and coded application components in an Agile environment utilizing a test driven development approach
- Created SSIS package to load data to SQL Server from different sources.
- Created user friendly reports using SSRS.
- Done system integration with Team Foundation Server

Environment: SQL Server 2012, SSRS, SSIS, TFS, VB.NET, ASP.NET, Web Forms

Department of Health, PA

Jun 2012 - Feb 2013

Sr . Net Developer

EPHT

Environmental Public Health Tracking (EPHT) is the ongoing collection, integration, analysis, interpretation, and dissemination of data from environmental hazard monitoring, and from human exposure and health effects surveillance.

- Developed SSIS packages for exporting data from CSV, EXCEL files.
- Developed Complex reports (Tabular, Bar and Map) reports (for Cancer, Lead poisoning, Birth defects, Asthma, Heart Attacks ,Carbon Monoxide) using SSRS2008 R2 and SQL Server.
- Designed and developed GIS reports for various counties within the PA state.
- Developed complex store procedures and user functions in SQL Server.
- Worked in a Scrum Agile process with two-week iterations delivering new features and working software.
- Developed UI using ASP.NET, VB.NET.
- Integrated reports and Web Application.

Environment: SQL Server, SSRS, SSIS, WCF, VB.NET, GIS Reports, TFS, ASP.NET

State of Delaware Project

Jan 2012 - Jun 2012

Sr Developer

ASSIST

ASSIST is a web site that allows individuals and community based organizations access to screen and apply for a broad range of social service programs like Long Term Care, Health Care Coverage, Food Supplement Program, Cash Assistance, Child Care Assistance, National School Lunch Program, Low Income Home Energy Assistance Program, Food Bank etc.

- Developed service gateway for the retrieval of information of status and corresponding details of cases from their mainframe using C#, WSDL.
- Developed service gateway to update the information of status and corresponding details of cases to their mainframe using C#, WSDL
- Designed and coded application components in an Agile environment utilizing a test driven

development approach

Environment: SQL Server, SSRS, SSIS, VB.NET, ASP.NET

Prior Experience

Department of State (Sec. of State's office), PA/ Sr. Net Developer/ Mar 2009 – Dec 2011

Tyco Electronics/ Dec 2008 – Feb 2009

Department of Public Welfare, Harrisburg, PA/ Sr.NET Developer/Lead/ Mar 2007 – Dec 2008

LV Hospital, Allentown, PA/ Jan 2006 - Apr 2006

AstraZeneca, Wilmington, DE/ Nov 2004 - Jan 2007

D&B Allentown/ Sep 2003 - Nov 2004

BEF Corporations, Allentown, PA/ Sr. Software Engineer/ Nov 2001 – Sep 2003

RED Hook Technology, Long Island, NY/ Sr. Software Engineer/ Nov 1999 – Aug 2001

Broadband Digital Group, Inc (Price Water House Cooper) / Sr. Developer

Alpha Data, Abu Dhabi, UAE/ Software Engineer/ Nov 1996 – Aug 1998

Symbol Tech. Bombay/ Developer/ Sr. Analyst/ Sep 1987 – 1996

Walter W. Holliday/ Software Developer

Over 5 years of experience with .Net and over 15 years of experience working on various IT Contracts and projects. Certified professional with experience in Visual Basic and ASP development. Hands on experience in designing and creating Virtual Instrument Software Architecture (VISA) communications capabilities for legacy General Purpose Interface Bus (GPIB) library (DLL) stack employing SCPI commands; legacy software update and Rewriting legacy web site in .net. Experience in creating high level .Net design representing a re-engineering of a legacy system which serves their clientele. Proficiency in SQL Server (All), Oracle, Administration (SQL Server installation and management), Tuning (Profiler, Query Analyzer), Stored Procedures (dynamic), SSRS – Reporting Services, SSIS - DTS Packages (also dynamic .pdf creation), Oracle Packages with piping, Toad and Git. Experience in migrating version control from offshore Source Safe to in-house Git, Stash interface (Creation & Administration).

Education & Certifications

- Bachelor of Science degree, Major: Computer Science, Minor: Mathematics and Management Information Systems, Youngstown State University, Youngstown, Ohio
- **MCP - .net XML Web Services Developer(Microsoft Certified Professional)**
- **MCP - .net Web Application Developer(Microsoft Certified Professional)**
- **MCP - .net Windows Application Developer (Microsoft Certified Professional)**
- **MCAD – Microsoft Certified Application Developer (Includes all of the above)**

Technical Skills

- **Solution Types:** Web Applications, Web Services, Windows Applications WPF, Windows Services, DLLs', Embedded Systems, Authentication & Authorization, Design Patterns Cryptography
- **Packages:** Visual Studio 2017, Visual Studio Code, Razor, Bootstrap, Kendo UI, SignalIR, Splunk Knockout, Modernizer, Web Profile Builder, Epic MyChart, NopCommerce, LabVIEW Infragistics Telerik Rad Controls, IdentityServer3, Serilog, ReSharper
- **Programming:** C#, C, JavaScript, JSON, JQuery, Generics, LINQ, WCF, Angular2v6, TypeScript, MVC, Node.JS, React.js, AJAX, Entity Framework, Dependency Injection, Unity, VB.net, VBScript, PowerShell, ASP, XQuery, XPath, XSL, XSLT, HTML, CSS, XML, SOAP, DTD, SVG, WPF, Pascal, FORTRAN, PL1, RPG
- **Test, Build & Deploy:** Nunit, Moq, Machine Specifications, ShiPro, TFS, BuildMaster, Harvest, Git, Stash, Jenkins, TeamCity, Octopus Deploy, JIRA
- **Databases:** SQL Server (All), Oracle, Administration (SQL Server installation and management), Tuning (Profiler, Query Analyzer), Stored Procedures (dynamic), SSRS – Reporting Services, SSIS - DTS Packages (also dynamic .pdf creation), Oracle Packages with piping, Toad

Professional Experience

Unified System Solutions Ltd. (USS) -North Royalton, Ohio

2001 – Present

Software Developer/ Lead

- Developing web based, Entity framework backend, drop-in software package for clubs including management and membership interfaces. Implementing through MVC, node.js and angularJS.
- Developing NopCommerce websites for several clients.
- Design and implementation of a remote system of monitoring and adjusting electronic measurement equipment for research laboratories using VISA.
- Relearning Linux using VirtualBox-Kali Linux focusing on penetration analysis and prevention.
- Developing Windows desktop WPF application for glucose monitoring devices which communicate via Bluetooth and USB through HMI libraries.

Environment: C#, Visual Studio, SQL Server, MVC, JavaScript, angularJS, node.js, Bootstrap, NopCommerce, Kali Linux, Entity Framework, Razor, JSON, Ajax, LINQ, VISA, VirtualBox, Dynamic

Linked Libraries, Dependency Injection(Unity), WPF

Communication Types: GPIB, RS232, RJ45(TCP/IP), USB, HMI

Equipment Types: function generators, network analyzers, spectrum analyzers, multi-meters, etc

Contracts

eLead Corp. (Contract – CRM Package) (Cleveland, OH – Remote to Destin, FL)

Apr 2019 – Oct 2019

- Augmented automotive software solutions custom customer relationship CRM, BDC, Marketing, and service operations management sales package.

Environment: C#, VS 2017, Entity Framework, HTML5, TFS Cloud, Git, NUnit, Moq, JavaScript, Ajax, LINQ, Dynamic Linked Libraries, Class Interfaces, Bootstrap, Web API, SSRS, MVC 5, razor, JSON, JQuery, XML, Chrome Debugger, SQL Server 2014: tables, views, stored procedures, functions, and triggers, Generics, CSS

Ectobox Corp. (Contract – CRM Package) (Cleveland, OH – Remote to Pittsburgh, PA)

Nov 2018 – Apr 2019

- Augmented custom customer relationship management sales package.

Environment: C#, VS 2017, Entity Framework, HTML5, TFS Cloud, Git, SQL Server 2014: tables, views, stored procedures, functions, and triggers, Javascript, Ajax, Linq, Dynamic Linked Libraries, Class Interfaces, Kendo Controls, Web API, Bearer Tokens, OAuth, SSRS, MVC 5, razor, Windows Services, JSON, JQuery, XML, Chrome Debugger, Generics, CSS

PoleZero Corp. (Contract – Embedded Systems) (West Chester, OH)

May 2017 – Aug 2017

- Designed and created Virtual Instrument Software Architecture (VISA) communications capabilities for legacy General Purpose Interface Bus (GPIB) library (DLL) stack employing SCPI commands.
- Implemented automated discovery of electronic test equipment like: function generators, network analyzers, spectrum analyzers, etc.
- Developed automated discovery for classification and implementation of IVI driver controlled PXI electronic test equipment. This work was directed to fulfilling a DOD contract designated to sonobuoy anti-submarine warfare devices and other Department of the Navy narrow band communications interfaces. These high risk tasks were expected to be delivered after an initial six month term. Able to deliver these solutions well before the client expected; hence the short term of this engagement.

Environment: C#, Visual Studio, Dynamic Linked Libraries, Class Interfaces, SCPI Commands, Virtual Instrument Software Architecture (VISA) Interface, Dependency Injection

Communication Types: GPIB, RS232, RJ45 (TCP/IP), USB

Equipment Types: function generators, network analyzers, spectrum analyzers, multi-meters, etc.

Personal Time Off

Aug 2016 – Oct 2016

- Attended Sailing Classes & Celestial Navigation (self-taught)
- Obtained Captains Certification for sailing vessels over 40 feet.

Environment: Sun, rain, great lakes, stars, wind, sails, sheets (ropes), knots, sextant, charts

MRI Software Corp.(Contract – Authorization & Authentication Web Apps.) (Solon, OH)

Jun 2016 – Aug 2016

- Designed and created several potential IdentityServer3 API systems as potential candidates for several in house, real estate related software products.
- Created interfaces for MVC, ASP.Net Identity,angularJS interface as well. MRI, being a global

enterprise, ultimately decided to deploy RSA, an “off-the-shelf” “pay-per-use” solution, which was more globally acceptable for their API security.

Environment: MVC 5, razor, JavaScript, angularJS, JSON, JQuery, Entity Framework, SQL Server 2008R2, Tokens, Bearer Tokens, IdentityServer3, OWEN, Katana Middleware, OAuth, Serilog, Dependency Injection, SSL, X509Certificates, Visual Studio, C#

Marathon Petroleum Corp. (Contract - Web Services & Web/Windows Applications)(Findlay, OH)

Dec 2015 – Jun 2016

- Augmentation of and creation of various systems for data consumption and presentation of petroleum pipeline “pig run” (pigs are instrument clusters sent through pipelines) data captures.
- Augmentation of and creation of various systems associated with the inspection and maintenance of pipeline infrastructure and architecture.
- Google Earth pipeline mapping.

Environment: MVC 5, razor, JavaScript, Knockout JS, WPF, JSON, JQuery, Entity Framework, SQL Server 2008 R2, SMTP Mail, Google Earth, C#, Visual Studio, VB.Net Infragistics Rad Controls

Southern Cuyahoga County Sportsman’s Assn. (Web Services & Web App.) (Medina, OH)

Aug 2015 – Dec 2015

- Designed and created member web site.
- Designed and created management interface for site configuration controls all aspects of the club.

Environment: MVC 5, Razor, bootstrap, JSON, JQuery, Entity Framework, SQL Server 2008 R2 SMTP Mail, C#, Visual Studio, Dependency Injection,

Cardinal Health (Contract - Web Services & Web Applications) (Twinsburg, OH)

Dec 2014 – Aug 2015

- Assisted in recovery from IT disaster. Existing project was 1.5 years late. Code was being released to production without QA.
- Troubleshooting existing production problems and designing work arounds
- Tracked issues associated with above problems; remediation of issues associated with above problems, coding enhancements and remediation of Replacement of K2 product
- Suggested alternate infrastructure processes.

Environment: MVC 5, AngularJS, Knockout JS, Ajax, Razor, JSON, LINQ, SignalIR, Dependency Injection, K2, Chrome Debugger, Splunk, ShiPro, Visual Studio, C#, Thin Clients

Safeguard Properties (Contract – Build & Release Management)(Brookpark, OH)

Feb 2014 – Oct 2014

- Designed and implemented an automated build and deployment system using BuildMaster with PowerShell scripting.
- Established and managed deployment system environments.
- Designed next generation of deployment system.
- Maintained and modified mobile gateway system using JSON communications for Safeguard Mobile App. Backend DB communications.
- Mentored intern.
- Built and deployed Oracle packages.

Environment: Ajax, Razor, JSON, LINQ, PowerShell Scripting, BuildMaster, TFS, GIT, SQL Server, Oracle, DOS Scripting, Visual Studio, C#, VB.Net, Web Services,

Stonegate Mortgage (Build & Release Architecture, Creation, Administration)(Carmel, IN)

Jun 2013 – Jan 2014

- Served as Lead Architect and Offshore Integrator and interface to Stonegate Mortgage.

- Interfaced with Stonegate departments: Network, DB Admin, and System Admins etc...To facilitate change management and team efficiencies.
- Mapped (documented)entire Stonegate IT systems, interfaces and infrastructure. with off-shore BA. (Initial off-shore Company had nothing which we were allowed to trust) ~ 4- 5 weeks
- Migrated version control from offshore Source Safe to in-house Git, Stash interface (Creation & Administration). ~ 3 weeks
- Designed, Created and Administered 10 branched deployment network through environments: Dev, Test, UAT, TRN, PRD. Using dynamic deployment branching pathways. ~ 4-5 weeks
- Administered and trained on-site and off-shore personnel on version control system and deployment processes. Acted as GateKeeper to deployment environment.
- Established automated migration approval system for Hotfix and Regular deployments; this nearly eliminated normal stakeholder communication through a web based GUI which displayed projects and deployment progress through deployment environments.
- Participated in monthly releases (originally 3hours, cut and paste) reduced to 45 minutes(automated) at the time contract ended.

Environment:IIS 7, Git, Stash, Jenkins, TeamCity, PowerShell and Octopus Deploy, Configuration transforms, SMTP Mail, Web Application, Web Services

Diebold Inc.(Contract – Embedded Systems) (North Canton, OH)

Aug 2012 – Apr 2013

- Casino ATM software development.
- Involved in Legacy software update, User interface augmentation.

Environment: Clear Case, Rational, Build Forge. Visual Studio, C#, network diagnostics, embedded systems interfaces, VB.Net, Web Services, Web Applications,

Speedway Inc. (Contract – Web Application & Web Services) (Enon, OH)

Nov 2011 – Apr 2012

- Speedy Rewards development system development.

Environment: Oracle PL SQL package creation including: tables, views, stored procedures and functions, Visual Studio, C#

Lancaster General Hospital. (Contract – Authorization & Authentication, Web) (Lancaster, PA)

Aug 2011 – Nov 2011

- Designed, created and implemented Knowledge Based Authentication with Epic interface involving RSA.

Environment: Web Services, Web Application, Visual Studio, RSA, Epic, C#, SQL Server 2008

North American Title Group. (Contract - Web Services & Web Applications) (Cleveland, OH)

Aug 2010 – Aug 2011

- Designed and development of title insurance software packages. Test writing with Machine Specifications 4.0.

Environment: Web Services, Web Applications, Visual Studio, MVC 3, C#, SQL Server 2008, Machine Specifications 4.0, Razor, JavaScript, JSON, Ajax, Bootstrap, Generics, Dependency Injection

Investigo – Broadridge Subsidiary. (Contract - Web Application & Web Services) (Ft. Wayne, IN)

Feb 2010 – Jul 2010

- Securities management software package design and development.
- Upgrading and fiving to the Investigo software. ASP.net web development.

Environment: VB.net, JavaScript, SQL Server, Source Safe,GIT

Private Concern (Pro Bono – Web Application & Web Services) (Cleveland, OH)

Oct 2009 – Feb 2010

- Google Map functionality integration into internet site. This will aid members in the identification and scheduling of meetings they commonly attend.
- Converted their database (MS Access) to SQL Express. Their entire office has traditionally been run on an MS Access database with VBA code and MS Access GUI. Rewrote this entire application as a web application that integrates with the SQL Express database.
- Rewrote legacy web site in .net.

Environment: VB.net, VBA, SQL Express, Google Maps, TFS

PartsSource Inc.(Contract – Windows Applications) (Arora, OH)

Aug 2009 – Oct 2009

- Designed and developed Windows based camera control photographic image archiving system for web based marketing and sales of medical equipment parts.

Environment: C#, SQL Server, WMA, N-Unit, Infragistics Rad Controls

Corning Inc. (R&D), (Contract- Embedded Systems) (Corning, NY)

Jan 2007 – Dec 2008

- Designed and created a GUI which would be used to interface with an embedded system.
- Designed and created a secondary Windows Application as an access configuration tool. This tool used custom AES encryption for authorization and authentication for access to functionality of embedded system.
- Created bootable USB devices which will ultimately be used in production environments. Designed and created a .net communications interface for electrical lab equipment using NI VISA.

Environment: C#, VB.Net Visual Studio, Dynamic Linked Libraries, Class Interfaces, SCPI Commands, Virtual Instrument Software Architecture (VISA) Interface, TFS

Communication Types: GPIB, RS232, RJ45(TCP/IP), USB

Equipment Types: function generators, network analyzers, spectrum analyzers, multi-meters, etc.

The Cleveland Clinic (Contract – Web Services & Web/Windows Applications) (Cleveland, OH)

Jul 2006 – Dec 2006

- Designed and created a message transport system which would consume web services provided through Epic's "MyChart" web application. This system allowed physicians to target patients using dynamically generated SQL queries in an effort to notify patients of medical alerts.
- Designed and created associated web services and associated database components.

Environment: C#, SQL Server, JavaScript, Epic, Infragistics Rad Controls

National City Bank (Contract – Web Services & Web/Windows Applications) (Cleveland, OH)

Mar 2006 – Jul 2006

- Worked on several C# and VB .NET and SQL Server projects. Some were related to project management; others covered areas of risk management and charge-off functionality.

Environment: C#, SQL Server, Infragistics Rad Controls

Predictive Service Corp., (Contract – Windows Application) (Cleveland, OH)

Dec 2005 – Mar 2006

- Created C# enhancements for a .net solution thermal mapping of buildings to locate leaks on roofs.

Environment: C#, nUnit, nHibernate, SQLBsa, SQL Server,

Xerox Global Services, (Contract – Solution Architecture (Web Based Design)) (Cleveland, OH)

Aug 2005 – Nov 2005

- Created a high level .NET design. This design represented a re-engineering of a legacy system which currently serves their clientele. The design was a services oriented architecture and a composite solution. It included Web Services, Web Applications, .NET Remoting and Windows Services.

Environment: SQL Server, VB.Net Oracle, iWay Adapter Manager, iWayPrintManager and iWay Prime

Ohio Savings Bank (Contract) (Cleveland, OH)

May 2005 – Aug 2005

- .NET conversion project of their Gemstone mortgage processing web application. The product was a mix between legacy ASP and ASP.NET. Java Script and XML were used extensively along with .NET Remoting.

Environment: Oracle, Toad, Harvest, JavaScript, XML, VB.Net XSLT,

Atlas World Group, (Contract – Solution Architecture & Team Lead) (Evansville, IN)

Mar 2004 – Apr 2005

- Designed and developed a financial data transfer process. The data source was a mainframe computer. The destination was Microsoft Great Plains accounting software. The process involved: a Windows service, a Web service, a Windows application, XML, and XSLT. This was an intranet solution which would act as a data bridge during the process of reducing reliance on their mainframe. After 6 months, Atlas requested presence for an extended time in Evansville, IN.
- Involved in a multitude of small projects. All of these projects were .NET based; some were written in VB.net in conjunction with VBA, others were C#.
- Some of these applications supported the product produced for Atlas prior to this engagement. Some were proof of concept designs and prototypes. Some involved converting existing COM components to .NET Dynamic Linked Libraries.
- Included mentoring their staff on .NET technologies, improving SQL performance and researching 3rd party geographical mapping products for inclusion into their composite business solution.

Environment: SQL Server, JavaScript, XML, XSLT, VB.net

ProQuest (Contract – Web Services & Web Application)(Richfield, OH)

Jan 2004 – Mar 2004

- Development of image recognition system for uniqueness of images for database duplicate elimination for the ProQuest PowerSport Dealer Management System product.
- Wrote extensive DTS packages within SQL Server 2000.

Environment: SQL Server, JavaScript, XML, XSLT, C#, SQL DTS

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: Sandeep Singh

Telephone Number: 888-998-7284

Fax Number: 732-537-0888

Email Address: govt@tscti.com

Pricing

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.

Year 1 – Individual # 1

2,000 hours (estimate)	x	\$ 90.00	hourly rate	=	\$ 180,000.00	annual cost
					(a)	

90,000.00

Year 1 – Individual # 2

2,000 hours (estimate)	x	\$ 90.00	hourly rate	=	\$ 180,000.00	annual cost
					(b)	

Year 2 – Optional Renewal Term (Three Month Cycles) – Individual # 1

500 hours (estimate)	x	\$ 90.00	hourly rate	=	\$ 45,000.00	each 3-month cost
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Year 2 – Optional Renewal Term (Three Month Cycles) – Individual # 2

500 hours (estimate)	x	\$ 90.00	hourly rate	=	\$ 45,000.00	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)

\$ 360,000.00

Purchasing Affidavit

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: 22nd Century Technologies, Inc.

Authorized Signature: Kunal Sin Date: 05/29/2020

State of N.J.

County of Somerset, to-wit:

Taken, subscribed, and sworn to before me this 29th day of May, 2020.

My Commission expires March 31, 2025.

AFRIX SEAL HERE

EVA GADDIS-MCKNIGHT
NOTARY PUBLIC OF NEW JERSEY
COMMISSION # 50013210
MY COMMISSION EXPIRES 3/31/2025

NOTARY PUBLIC

Eva Gaddis-McKnight

Purchasing Affidavit (Revised 01/19/2018)

Addendum Acknowledgement Form

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ STO200000002

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that 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.

22nd Century Technologies, Inc.

Company

Eva Paddis-McKnight

Authorized Signature

06/09/2020

Date

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