



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 @ 3

List View

- General Information
- Contact
- Default Values
- Discount
- Document Information
- Clarification Request

Procurement Folder: 986667

Procurement Type: Central Master Agreement

Vendor ID: 000000122895

Legal Name: COMPUTER AID INC

Alias/DBA:

Total Bid: \$5,553,433.60

Response Date: 03/03/2022

Response Time: 10:48

Responded By User ID: compaid

First Name: Tammy

Last Name: Matranga

Email: tammy.matranga@cai.io

Phone: 309-678-6428

SO Doc Code: CRFQ

SO Dept: 0803

SO Doc ID: DOT2200000122

Published Date: 2/24/22

Close Date: 3/3/22

Close Time: 13:30

Status: Closed

Solicitation Description: ADDENDUM NO\_1 WVDOT IT Temporary Staffing Services

Total of Header Attachments: 3

Total of All Attachments: 3



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

**State of West Virginia  
 Solicitation Response**

**Proc Folder:** 986667  
**Solicitation Description:** ADDENDUM NO\_1 WVDOT IT Temporary Staffing Services(81220053)  
**Proc Type:** Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2022-03-03 13:30	SR 0803 ESR03032200000005328	1

**VENDOR**  
 000000122895  
 COMPUTER AID INC

**Solicitation Number:** CRFQ 0803 DOT2200000122  
**Total Bid:** 5553433.599999999627470970153 **Response Date:** 2022-03-03 **Response Time:** 10:48:26  
**Comments:**

**FOR INFORMATION CONTACT THE BUYER**  
 John W Estep  
 304-558-2566  
 john.w.estep@wv.gov

**Vendor Signature X** **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	Senior Mainframe Application Analyst				730080.00

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

Senior Mainframe Application Analyst

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Mainframe Application Analyst				689520.00

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

Mainframe Application Analyst

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Senior Application Oracle Database Administrator				966700.80

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

Senior Application Oracle Database Administrator

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Application Oracle Database Administrator				899100.80

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

Application Oracle Database Administrator

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Senior Application DB2 Database Administrator				802776.00

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

Senior Application DB2 Database Administrator

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Application DB2 Database Administrator				763900.80

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

Application DB2 Database Administrator

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	PC Programmer Analyst				701355.20

Comm Code	Manufacturer	Specification	Model #
80111609			

**Commodity Line Comments:**

**Extended Description:**

PC Programmer Analyst



# West Virginia Department of Transportation

IT Temporary Staffing Services

Request for Quote (RFQ)  
81220053

Submission Date: March 3, 2022  
Submitted by Computer Aid, Inc.



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# Introduction

## Statement of Understanding

Computer Aid Inc. (CAI) understands that the West Virginia Department of Transportation (WVDOT) seeks to establish multiple open-end contracts for IT temporary staffing services. WVDOT has identified seven position classifications for contracted staffing needs to support the Department's IT efforts. The intent of this contract is to provide the Agency with a purchase price for all the Contract Services and, by awarding multiple contracts, the State will ensure each of the seven classifications can be adequately provided during the life of the Contract. Staffing services for these position classifications will be used to develop modifications and enhancements to the State agency's end-user computer systems; mentor and provide technical training; provide support and "shadowing" opportunities for State analysts; and other tasks defined by the end-user State agency.

We understand the end-user agencies manage numerous systems that support various applications for the State of West Virginia, and these systems have varying platforms. The mainframe environment is DB2 and VSAM; the client server is Visual Studio, both Microsoft SQL Server and Oracle databases.

We understand each classification will be considered separately for award purposes and bidders may be awarded none, any, or all classifications.

## Summary of Proposed Services

CAI seeks to qualify as Vendor for **all seven position classifications**:

1. Senior Mainframe Application Analyst
2. Mainframe Application Analyst
3. Senior Application Oracle Database Administrator
4. Application Oracle Database Administrator
5. Senior Application DB2 Database Administrator
6. Application DB2 Database Administrator
7. PC Programmer Analyst

We propose to utilize our extensive experience providing IT staff augmentation services to public sector agencies and Departments of Transportation (DOTs) and our proven recruiting methodology.

We are choosing to pursue all seven service categories because our recruiting processes are designed to find qualified candidates across various positions and technologies; and we have a proven track-record of providing staffing for all seven of the listed classifications within the past five years, as evidenced in [Section 2. Qualifications](#).

## Company Overview

CAI is a national leader in the staff augmentation and contingent IT labor industry. We are a large organization with a nationwide and international reach into the staffing community, working with city-, local-, and state-level entities. We bring experience, knowledge, proven tools, and talent to our

clients that few can match. We have a large talent acquisition team that places more than 650 contingent labor staff annually nationwide.

CAI has a long history of supporting public sector clients: **85 percent of our work is for state and local agencies across the U.S.** We also have significant experience enhancing and supporting toll technology, construction/engineering applications, and DOT software for multiple clients. We have continuously supported Florida DOT since 1994; Virginia DOT since 2006; and Pennsylvania DOT since 2009. **At proposal submission, we have 1,732 resources supporting DOT, transit, and similar agencies in nine states and the District of Columbia,** summarized in the accompanying table. We have deep domain knowledge in technology associated with roads, bridges, permitting, contract management, project management, materials management, OS/OW, and traffic management. Systems we developed have garnered awards for our clients from the National Association of State Chief Information Officers (NASCIO), the American Association of State Highway and Transportation Officials (AASHTO), and the International Bridge, Tunnel and Turnpike Association (IBTTA). We are also technology partners with Microsoft (Gold) and ESRI (Silver).

**Transportation Staff**

State	Headcount
District of Columbia	9
Delaware	55
Florida	492
Georgia	138
Illinois	2
Iowa	14
New Jersey	131
North Carolina	184
Pennsylvania	222
Virginia	328
<b>Total: 1575</b>	

## Why CAI?

As you read the attached proposal, please take into consideration the following:

- **We have proven experience supporting DOTs and related entities in multiple states**  
We have immediate experience in the domain of this solicitation.
- **We specialize in IT Staff Augmentation**  
With nearly 30 years of experience supporting public sector clients across 28 states, we are specialists in providing staff augmentation and project-based IT services for state and local government entities.
- **We are a large, financially stable firm able to support WVDOT for the duration of the contract**  
Our credentials are summarized in **Qualifications**. We will be happy to provide audited financial statements upon request.

CAI has been recruiting IT staff since our firm was founded in 1981 and have been supporting public sector clients since 1993. Our experience and expertise in the public sector IT space coupled with our time-tested and proven staffing processes make us exceptionally qualified to serve WVDOT with its contracted staffing needs.

## Significant Tolling & Transportation Domain Knowledge

Tolling and transportation organizations have unique technology needs, including management of huge amounts of data and tight integration of many different systems, applications, and technologies. Not all IT firms understand how roadway data, traffic solutions, bridge construction schedules, custom GIS applications, and contactless toll data all fit together to address various business needs. In addition to our technical expertise, CAI has broad domain knowledge related to tolling, transportation, management and governance, and enterprise oversight.

We currently support highly integrated SAP environments for the Pennsylvania Turnpike Commission (PTC); have architected, designed, built, and implemented complex and multifaceted systems for the Pennsylvania Department of Transportation (PennDOT); have worked with Florida's Turnpike Enterprise (FTE) to collaboratively design and implement IBTTA-recognized support processes; and have helped the New Jersey Department of Transportation (NJDOT) design and implement an EMO/PMO to improve management and governance of its IT portfolio and projects. Our team will leverage this understanding and experience in supporting WVDOT.

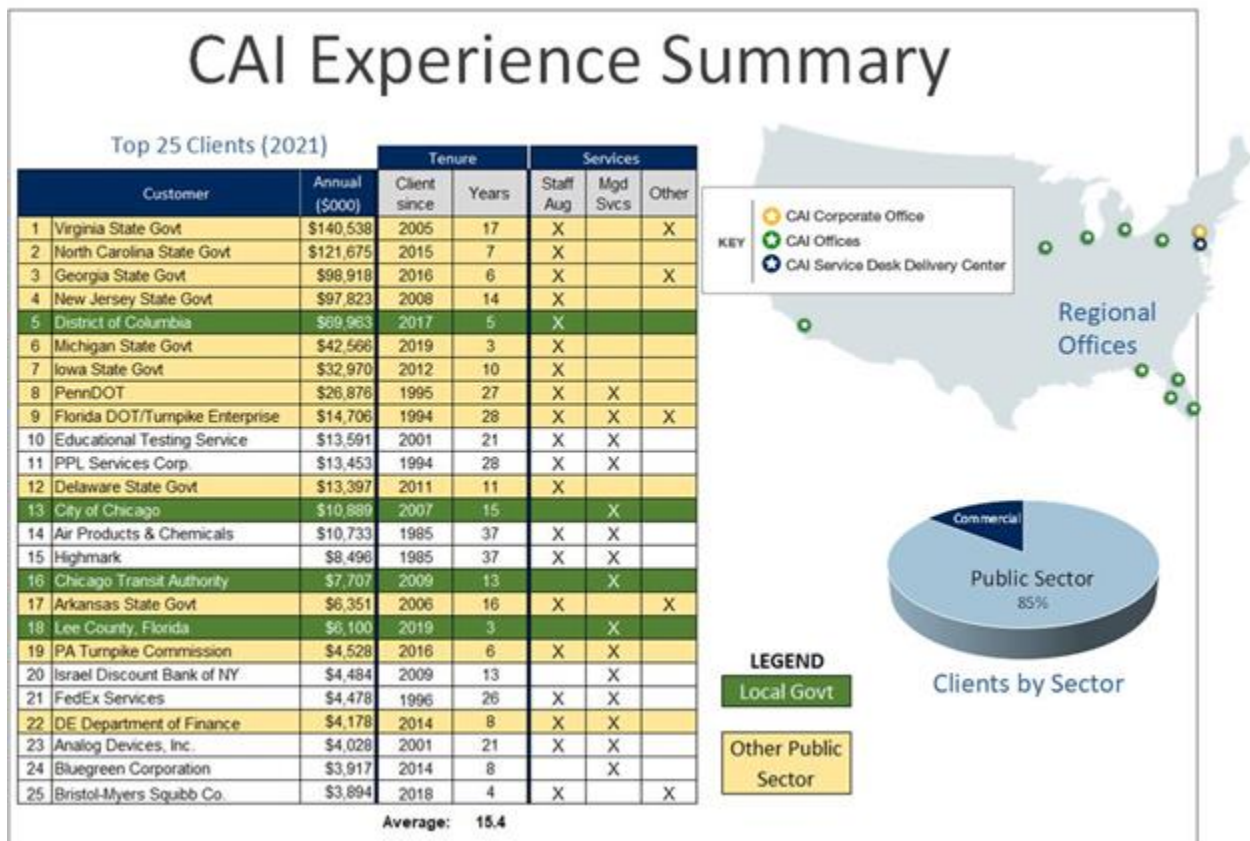
<b>Contract Manager:</b>	Michael Brion – Vice President, Transportation & Tolling
<b>Telephone Number:</b>	(717) 350-4770
<b>Fax Number:</b>	(610) 530-5098
<b>Email Address:</b>	michael.brion@cai.io

# Qualifications

3.1 Vendors shall be in business a minimum of five (5) years, providing similar information technology services. Vendors must provide documentation to indicate that their company meets this requirement prior to award; however, bidders may include this documentation with their bid.

Founded in 1981 in Pennsylvania, CAI is a \$946 million staffing and services firm with more than 6,500 associates. CAI has supported public sector clients since 1993. Today, 85 percent of our business is with state and local government bodies, summarized in the below graphic. This includes support for 53 local-government entities in 13 states. Also depicted in the graphic below is our average tenure of 15.4 years with these clients. This impressive statistic speaks to our quality of service, continued performance, and customer satisfaction.

CAI will provide a license or similar proof of meeting the requirement of being in business a minimum of five years providing similar IT services upon request.



3.2 Vendors shall be able to demonstrate their potential to provide these services by providing documentation to indicate they have provided staffing of at least six (6) individuals within the listed classifications within the past five (5) years; documentation should include enough information to indicate that the Vendor provided an employee meeting the requirements of a specifically named classification from Section 1, above: the documentation should name the entity to whom the individual was supplied and provide contact information for that entity. Vendors must provide documentation to indicate that their company meets this requirement prior to award; however, bidder may include this documentation with their bid.

## IT Staff Augmentation Expertise

CAI is a national leader in providing contingent IT labor programs and staff augmentation solutions. **We are providing contingent IT staff augmentation services to over 60 public sector agencies through our Talent Acquisition practice, with wide-ranging and diverse IT staffing needs.** To support such a large customer base, CAI’s Talent Acquisition practice is made up of a team of 20 staff, filling more than 650 positions annually. This team supports our public sector clients and commercial clients and is separate from our Contingent Workforce Solutions (CWS) practice. They work on requirements within the public sector such as Florida DOT and PennDOT, where we provide skilled IT contingent labor.

Since 2004, we have operated CWS programs and national cooperative purchasing programs throughout the United States. The CWS program supports state government enterprises that have transitioned to a centralized procurement model for contingent IT labor. Our CWS practice currently provides public sector staffing to nine states and the District of Columbia. In this network, we have more than 1,800 active vendors from whom we can recruit qualified candidates for our staffing work with WVDOT. **To date, we have more than 11,000 active candidates in our system, so we are able to quickly find and place qualified resources for our clients. CAI has a wide reach to provide WVDOT with resources that possess necessary skills sets for each of the Delivery Orders released by the Agency.**

The following table shows the number of placements we currently have through our two staffing approaches. Because we are constantly hiring new associates, these numbers reflect a current “no less than” number for each skill set.

**Current Staffing Placement Across CAI for the Required Skill Sets**

Skill Set	CWS Placements	TA Placements
Mainframe Analyst/Developer	30+	30+
Oracle DBA	80+	25+
B2 DBA	25+	15+
PC Programmer Analyst	1400+	100+

Per Section 3.2 of the RFI, CAI will provide documentation to prove our ability to meet this requirement, prior to award. Because of our large number of placements, we will work with WVDOT to identify the specific number and type of references desired for each specifically named classification. CAI will provide the requisite information including resumes, the entity they currently support, and the contact information for that entity.

As examples, we are providing three representative resumes of senior associates we have placed in mainframe, Oracle, and DB2 rolls at one of our large DOT clients. They can be found in **Attachment A - Resumes**.

## Forms

Per RFQ requirements, our completed forms appear below.



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

State of West Virginia  
 Centralized Request for Quote  
 Service - Prof

<b>Proc Folder:</b> 986667			<b>Reason for Modification:</b> Addendum No_1 Vendor Questions and responses Attach revised Pricing Page with Formulas
<b>Doc Description:</b> ADDENDUM NO_1 WVDOT IT Temporary Staffing Services(81220053)			
<b>Proc Type:</b> Central Master Agreement			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2022-02-24	2022-03-03 13:30	CRFQ 0803 DOT2200000122	2

**BID RECEIVING LOCATION**

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

**VENDOR**

**Vendor Customer Code:** 804155153

**Vendor Name :** Computer Aid, Inc.

**Address :**

**Street :** 1390 Ridgeview Drive

**City :** Allentown

**State :** PA **Country :** USA **Zip :** 18104

**Principal Contact :** Michael Brion

**Vendor Contact Phone:** (717) 350-4770 **Extension:** N/A

**FOR INFORMATION CONTACT THE BUYER**  
 John W Estep  
 304-558-2566  
 john.w.estep@wv.gov

**Vendor Signature X**  **FEIN#** 23-2180878 **DATE** 3/3/2022  
 D. Abraham Hunter, EVP

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



**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CRFQ DOT2200000122**

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

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

**Addendum Numbers Received:**

(Check the box next to each addendum received)

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

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

Computer Aid, Inc.

Company



Authorized Signature

3/3/2022

Date

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



## West Virginia Ethics Commission



### Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

*"Business entity"* means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

*"Interested party"* or *"Interested parties"* means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

*"State agency"* means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

*This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: [ethics@wv.gov](mailto:ethics@wv.gov); website: [www.ethics.wv.gov](http://www.ethics.wv.gov).*



West Virginia Ethics Commission  
**Disclosure of Interested Parties to Contracts**

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Computer Aid, Inc. Address: 1390 Ridgeview Drive  
Allentown PA 18104

Name of Authorized Agent: D. Abraham Hunter Address: 1390 Ridgeview Drive, Allentown PA 18104

Contract Number: TBD Contract Description: IT Temporary Staffing Services

Governmental agency awarding contract: WVDOT

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

**1. Subcontractors or other entities performing work or service under the Contract**

Check here if none, otherwise list entity/individual names below.

**2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**

Check here if none, otherwise list entity/individual names below.

Anthony J. Salvaggio, CEO

**3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**

Check here if none, otherwise list entity/individual names below.

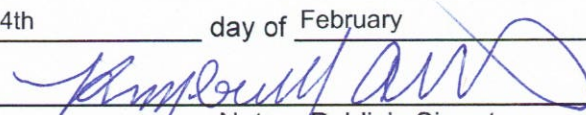
Signature:  Date Signed: 2/24/2022

**Notary Verification**

State of Pennsylvania, County of Dauphin:

I, D. Abraham Hunter, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 24th day of February, 2022.

  
Notary Public's Signature

**To be completed by State Agency:**  
Date Received by State Agency: \_\_\_\_\_  
Date submitted to Ethics Commission: \_\_\_\_\_  
Governmental agency submitting Disclosure: \_\_\_\_\_



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: Computer Aid, Inc.

Authorized Signature:  Date: 3/3/2022

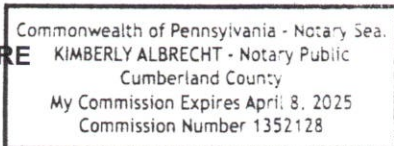
State of Pennsylvania

County of Dauphin, to-wit:

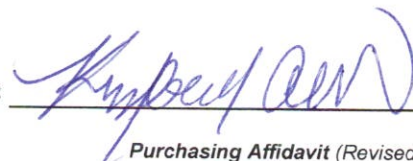
Taken, subscribed, and sworn to before me this 24 day of February, 2022.

My Commission expires April 8, 2025.

**AFFIX SEAL HERE**



**NOTARY PUBLIC**

  
Purchasing Affidavit (Revised 01/19/2018)



# Senior Mainframe Representative Resume

Senior developer and COBOL consultant with more than 40 years of IT experience. Extensive experience managing and supporting application maintenance projects. Possesses strong technical and analytical skills, excellent communication and interpersonal skills, and an outstanding focus on customer service.

## Work History

**CAI**

**DURATION: 88 MONTHS**

**Client: XXXDOT**

*Team Lead/Technical Lead*

Provides technical advice and systems analysis for enhancement requests to the team leader and business analysts; and provides technical assistance to a team of mainframe programmers in support of XXXDOT's Driver Licensing and Motor Vehicle applications. Provides first and second level support for the nightly batch processing cycle for those same applications. Also, performs coding and unit testing of maintenance requests and small enhancements; and performs technical interviews of potential mainframe candidates.

Guided the team through the initial three months of transition of all Driver Licensing and Motor Vehicle applications. Followed CAI's Application Knowledge Transfer (AKT) process and developed the AKT documents that became the foundation knowledge for the assumption of the maintenance activities for these applications. Established the framework for the daily maintenance activities including the role of 'Job Monitor' to ensure the team's ability to meet defined Service Level Goals and an on-call rotation to support the nightly batch processing cycles. Continued to lead the team through the first two Managed Maintenance release cycles before transitioning to the Mainframe Technical Lead position.

**<REDACTED>**

**DURATION: 25 MONTHS**

**Client: XXXDOT**

*Senior Programmer/Analyst*

### **Motor Carrier Safety Improvement Act (MCSIA)**

Analyzed the requirements, developed detailed specifications to modify the current CDL application processes, and coded and unit tested those changes. Was assigned to develop the more complex DB2 queries used in the management decision making process.

*Technologies: Cobol, IMS DB/ Conversational DC, DB2, QMF, Crystal Reports, File-Aid DB2, Expediter, Librarian*

### **Patriot Act**

Analyzed the requirements provided by the Transportation Security Administration (TSA) and worked with XXXDOT business community to document the business impact. Developed detailed specifications to modify the current CDL Hazmat application process to meet the Patriot Act requirements. Additionally, coded modifications to programs and unit tested those changes. Was assigned to work with the business community to develop requirements and specification for several management reports. Ultimately developed the programs to produce the desired reports.

*Technologies: Cobol, IMS DB/Conversational DC, DB2/Stored Procedures, QMF, File-Aid DB2, Expediter, Librarian*

### **XXXDOT – DUI**

Modified and enhanced XXXDOT's Driver's Licensing System in support of Senate Bill 8 – DUI Law Updates for Driver's Licenses. Analyzed the existing Occupational Limited License/Probationary License (OLL/PL) processes; developed specifications to modify these processes to meet the new DUI requirements; and



coded and unit tested the modifications. Developed detailed specifications for the system reporting requirements, including three operational reports and 12 external reports. Worked with the analysts and customer to confirm the requirements and identify the data sources. Developed the programs and job streams needed to create the three operational reports for implementation. Developed other program specifications from business requirements, coded and unit tested program updates, assisted in system testing, and provided support for implementation.

**<REDACTED> DURATION: 42 MONTHS**

**Client: XXXXXX**

*Senior Consultant*

Primarily performed coding and unit testing of maintenance requests and small enhancements. Also performed some analysis work depending on the level of specification detail provided. Mainframe programming was performed using Cobol, DB2, and VSAM for batch and CICS for online processing. Primary unit testing tool was IBM Debug for both batch processing and CICS online transactions. Additional DB2 tools included Princeton Softech and CA Platinum for DB2.

**OTHER PERTINENT EXPERIENCE**

Has more than 30 years of additional work experience as a Senior Programmer Analyst, Project Manager, and Team Leader.

**Technical Expertise**

<b>MAINFRAME</b>	COBOL, DB2/SQL, CICS, VSAM, IMS DB/DC, CA Platinum, Princeton, QMF/SPUFI, TSO/ISPF, JCL, Xpediter, IBM Debug, Easytrieve+, Micro Focus Cobol, APS, Abend-Aid, File-Aid IMS/DB2, CA 1/7/11, Endeavor, Librarian, Panvalet, SCLM
<b>TOOLS</b>	Mercury Interactive Test Director, Remedy, MS Project, Visio, MS Word, MS Excel, MS PowerPoint, MS Access, Structured Query Language (SQL), Lotus Notes, Windows 2000/NT/XP

**Education and Certifications**

- BS in Business Administration, Lebanon Valley College



# Oracle DBA Representative Resume

Highly skilled, detail-oriented, and experienced data architect who understands the value of information assets and how to define, create, protect, maintain, and leverage them. Technically competent, with strong hands-on design, analysis, and performance optimization expertise, coupled with experience as an Oracle DBA and developer.

## Work History

**COMPUTER AID, INC. 2018 – PRESENT**

*Database Architect*

Assigned to a long-term application modernization project, responsible for all aspects of database design and data modeling, data migration and integrity, interface and integration development, schema release management, troubleshooting and problem resolution, performance monitoring, and reporting and analytics.

Working with the application development team, devised, deployed, and refined the modernized data model and integration tools to support a multi-year phased implementation with ongoing interoperability between the modernized application interface with its Oracle database and the legacy DB2 database.

Developed a number of interfaces to exchange data with external systems, including a process to regularly refresh an extensive set of road and bridge data structures to facilitate a spatial GIS-based vehicle routing capability across the state of Pennsylvania.

Following a decision to migrate Oracle from on-premises to an Azure-based cloud architecture, drew on prior DBA experience to efficiently configure the VMs; install and patch Oracle; and then worked with the DBA and Security teams to migrate and verify data, manage firewall ports, validate connectivity, security and functionality, and ensure a successful migration with no impact to the user community.

Provides data management, database management, and SQL-PL/SQL expertise to the project, as well as to other client projects. Functions as the project interface with the client DBA staff and help guide their activities in support of the project.

**<REDACTED> 1988 – 2017**

*Senior IT Data Analyst*

Provided a wide variety of data architecture and analysis expertise to the development teams and the engineering community, consulting and working with developers to support their data management requirements, and with the business units to help them make solid data-driven business decisions.

Functioned as an interface between the development teams and the DBA/Operations Support groups. Supported architecture, design, modeling, governance, acquisition, integration, extraction, analysis, analytics, data quality, taxonomy, conversion, and maintenance.

Primary architect of an engineering document management system migration. Responsible for design and creation of all related database structures, identification and preparation of the target documents, analysis and facilitation of the processes to establish user accounts and privileges, and controlled source system access, created necessary target repositories and mechanisms to manage the actual migration process.

Reverse engineered several commercial information management data models, enabling direct support for large-scale analysis, reporting, classification, data extraction, maintenance, etc. Encapsulated key portions of this knowledge as packages, views, and related structures in Oracle for standardization and reuse by others.

Architected numerous system interface processes, including an extensible process to manage export control restrictions in an engineering document management system, ensuring that all legal and compliance regulations were enforced, and processes feeding engineering information to the online





electronic catalog and supplier portal to provide TE customers and vendors with up-to-date product drawings, characteristics, and specifications.

Supported acquisition and divestiture activity, capturing and integrating new data sources or identifying and extracting information to be separated, facilitating smooth transitions, minimizing disruptions and ensuring legal requirements are met. Provided both scheduled and on-demand analysis of a wide variety of engineering and related data, enabling well-informed business decision making, reliable reporting and feedback to Management, trend analysis, application metrics, dashboards, security, and abuse detection, etc.

Analyzed database, application, and process performance; tuned and optimized queries; and monitored databases and applications for uptime and service level compliance, minimizing unscheduled outages and maximizing overall performance and end-user satisfaction.

Mentored and trained others in Data Administration, governance, SQL, etc., increasing overall skill levels and self-sufficiency within the organization.

*Senior Software Engineer*

Full SDLC project management, including requirements gathering, development, testing, documentation, and deployment.

Participated in vendor product reviews, benchmarking, proofs-of-concept, and selection.

Served as a lead engineering change process analyst for a global SAP implementation.

*Development Supervisor*

Led a team of developers working on an engineering document management system. Responsible for all aspects of managing the development project, including individual coaching and performance reviews, regular communication with Management, code review and deployment, etc.

*Oracle Database Administrator*

Installed, configured, tuned, and maintained all engineering Oracle database instances, along with backup and recovery planning and execution, troubleshooting, etc.

## Technical Expertise

<b>CORE</b>	Unix/Oracle/SQL expertise; Analysis, Metrics, and Reporting; Data Validation and Quality Assessment; Data Modeling; Integration Techniques; Performance and Process Optimization; Reverse Engineering; Project Management; Communication Skills; Organizational Skills; Logical problem solving; Business Intelligence and Analytics
<b>SKILLS</b>	Oracle RDBMS, SQL, PL/SQL, Solaris/Linux, Azure, Shell Scripting, Toad, SQL Developer, OEM, SQL Server, SSMS, Microsoft Office Suite, ENOVIA (MQL/Adaplets); PTC/Windchill, Data Modeling, Erwin, Jira, Remedy, SharePoint, CMS Systems; older experience with C/C++/Java/JavaScript/PHP/HTML/XML

## Education and Certifications

- Bachelor of Science in Geochemistry, Penn State University



# PC Developer Representative Resume

Experienced .NET Developer well versed in Microsoft technologies with full application life cycle experience.

## Work History

### CAI 2007 – PRESENT

**Client:** XXXDOT

*Senior Developer for Managed Maintenance (MM) .NET Development Team*

- Performs analysis and development work on XXXDOT’s Materials eProcurement application
- Guides and directs junior members of the team as they are assigned tasks and make updates to the system
- Takes specifications and writes code to implement new functionality, fixes issues, and documents all updates made to the applications

*Technologies:* Visual Studio 2015, MVC 5, C#, .Net Framework 4.6.1, SQL Server 2008

*Developer for Electronic Construction and Materials Management System (eCAMMS)*

- Performed analysis and development work on XXXDOT’s eCAMMS
- Guided and directed junior members of the team as they were assigned tasks and made updates to the system
- Took specifications and wrote code to implement new functionality; fixed issues, and documented all updates made to the applications

*Technologies:* Visual Studio 2015, ASP.Net, VB.Net, .Net Framework 4.5, SQL Server 2008

*Developer for MM GIS Development Team*

- Performed analysis and development work on XXXDOT’s mission critical Road Condition Reporting System (RCRS) and the Crash Data Analysis Retrieval Tool (CDART)
- Developed and implemented enhancements for XXXDOT’s 511 Feed and RCRS Data Feed, providing critical roadway status information to drivers throughout the commonwealth
- Took specifications and wrote code to implement new functionality; fixed issues; and documented all updates made to the applications

*Technologies:* Visual Studio 2008, ASP.Net, VB.Net, .Net Framework 3.5, Oracle 10g

### OTHER PERTINENT EXPERIENCE

Has more than seven years of additional work experience as a Developer and a Programmer Analyst.

## Technical Expertise

<b>SOFTWARE</b>	MS Office, Visual Studio.Net, SQL Server, SQL Server Reporting Services, Crystal Reports, Oracle, Apache, IIS, VMware, Windows 7/8/10, Linux
<b>LANGUAGES</b>	Visual Basic.Net, C#, ASP.Net, MVC, Java, JavaScript, HTML, T-SQL, PL/SQL
<b>OTHER</b>	Object-Oriented Programming, Client/Server Architecture, Web Services

## Education and Certifications

- BA in Computer Science, Messiah College



# Exhibit A - Pricing Page

## WVDOT Information Technology Staffing Services RFQ(81220053)

*Revised - Version 2 - 2.22.2022*

Contract Item	Description	Est. Qty.	Unit of Measure	Year 1 Unit Cost	Year 2 Unit Cost	Year 3 Unit Cost	Year 4 Unit Cost	Extended Cost
4.1.1	Senior Mainframe Application Analyst (On-Site)	2080	EA	\$85.31	\$86.94	\$88.56	\$90.19	\$730,080.00
4.1.1	Senior Mainframe Application Analyst (Remote Work)	2080	EA	\$85.31	\$86.94	\$88.56	\$90.19	\$730,080.00
4.1.2	Mainframe Application Analyst (On-Site)	2080	EA	\$81.25	\$81.25	\$84.50	\$84.50	\$689,520.00
4.1.2	Mainframe Application Analyst (Remote Work)	2080	EA	\$81.25	\$81.25	\$84.50	\$84.50	\$689,520.00
4.1.3	Senior Application Oracle Database Administrator (On-Site)	2080	EA	\$113.75	\$115.38	\$117.00	\$118.63	\$966,700.80
4.1.3	Senior Application Oracle Database Administrator (Remote Work)	2080	EA	\$113.75	\$115.38	\$117.00	\$118.63	\$966,700.80
4.1.4	Application Oracle Database Administrator (On-Site)	2080	EA	\$105.63	\$107.25	\$108.88	\$110.50	\$899,100.80
4.1.4	Application Oracle Database Administrator (Remote Work)	2080	EA	\$105.63	\$107.25	\$108.88	\$110.50	\$899,100.80
4.1.5	Senior Application DB2 Database Administrator (On-Site)	2080	EA	\$93.44	\$95.88	\$97.50	\$99.13	\$802,776.00
4.1.5	Senior Application DB2 Database Administrator (Remote Work)	2080	EA	\$93.44	\$95.88	\$97.50	\$99.13	\$802,776.00

4.1.6	Application DB2 Database Administrator (On-Site)	2080	EA	\$89.38	\$91.00	\$92.63	\$94.25	\$763,900.80
4.1.6	Application DB2 Database Administrator (Remote Work)	2080	EA	\$89.38	\$91.00	\$92.63	\$94.25	\$763,900.80
4.1.7	Programmer Analyst (On-Site)	2080	EA	\$81.25	\$83.69	\$85.31	\$86.94	\$701,355.20
4.1.7	Programmer Analyst (Remote Work)	2080	EA	\$81.25	\$83.69	\$85.31	\$86.94	\$701,355.20
<b>Grand Total</b>								<b>\$11,106,867.20</b>

**Contract will be evaluated on all lines but only awarded on first year. Renewal options for years 2, 3, and 4 will be initiated by the Agency, agreed to by the Vendor and processed by the WV Purchasing Division as Change Orders for subsequent years.**

**The Pricing Pages contain a list of the Contract Items and estimated purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.**

D. Abraham Hunter

**Vendors Signature:**