



State of Oklahoma  
Office of Management and Enterprise Services  
Information Services Division

**AWARDED VENDOR INFORMATION**

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**Supplier Name:** Urban Policy Development

**Vendor ID#:** 362577

**Primary Contact:** Bruce Richmond

**Email:** brichmond@updconsulting.com

**Secondary Contact:** crolley@updconsulting.com

**Phone #:** 1- 443- 250 - 5491

**Email:** crolley@updconsulting.com

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**Contract ID #:** 3803

**P/Card Accepted:** ☐ Yes ☒ No

**Email Address to** bryanr@updconsulting.com  
**Receive ITSW1025**  
**SOW Notifications:**



## CONTRACT

# State of Oklahoma

### Dispatch via Print

**Supplier** 0000362577  
UPD CONSULTING  
2526 SAINT PAUL ST  
BALTIMORE MD 21218-4982  
USA

<b>Contract ID</b>			Page
000000000000000000000000003803			1 of 3
<b>Contract Dates</b>	<b>Currency</b>	<b>Rate Type</b>	<b>Rate Date</b>
07/01/2014 to 09/30/2015	USD	CRRNT	PO Date
<b>Description:</b>		<b>Contract Maximum</b>	
ITSW1025 IT Staffing		0.00	
<b>Allow Open Item Reference</b>			
<b>TYPE: STATEWIDE</b>			

Tax Exempt? Y      Tax Exempt ID:736017987

**Contract Lines:**

Line #	Cat CD / Item ID / Item Desc	UOM	Minimum Order		Maximum / Open	
			Qty	Amt	Qty	Amt
1	81112211 / Infrastructure Infrastructure consists of the following consulting services:  Enterprise Architecture Data Center Engineering for high Availability Enterprise Application and Desktop Virtualization Integration between on-site services with cloud/managed services Network Design and Security Identity Management and Federation Enterprise Messaging and/or E-Discovery VOIP and Unified Communications EDI/HL7 Messaging Network Assessment SOA Governance Complex System Performance Tuning Network Administrator Network Specialist	HR	0.00	0.00	0.00	0.00
	Contract Base Pricing	0.01000	HR		0001	
2	80101507 / Administrative Services Administrative Services consists of the following consulting services: IT Project Management IT Governance IT Strategic Planning IT Marketing and Branding IT Cost and Rate Analysis IT CRM IT Physical Workspace Planning IT Asset Lifecycle Management Usability Consulting Process/Service Improvement Coordinator Service Level Agreement IT Portfolio Management Business Requirements Gathering Business Analysts Business Process ENG/MGT and Assessment Technical Writer IT End-User Trainer Capacity Planning & Performance Specialist	HR	0.00	0.00	0.00	0.00
	Contract Base Pricing	0.01000	HR		0001	
3	81112218 / System and System Component Administration Services	HR	0.00	0.00	0.00	0.00

Final = The price is final after adjustments  
Hard = Apply adjustments regardless of other adjustments  
Skip = Skip adjustments if any other adjustments have been applied

**Authorized Signature**





## Dispatch via Print



# UPD Consulting

# Submitter

Office of Management and Enterprise  
3115 N Lincoln BLVD OKC OK

ATTN: Sheri Keller

Infrastructure		
	<b>Labor Discipline</b>	<b>Hourly Rate</b>
NOTE: <input type="checkbox"/> ON CELL	Enterprise Architecture	175.00
THEN ON <input type="checkbox"/> DROP-DOWN	Network Design and Security	140.00
BOX TO SELECT LEVEL AND LABOR	Identity management and Federation	140.00
CATEGORY		
Help Desk Support		
	<b>Labor Discipline</b>	<b>Hourly Rate</b>
NOTE: <input type="checkbox"/> ON CELL		
THEN ON <input type="checkbox"/> DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
Software Maintenance and Support		
	<b>Labor Discipline</b>	<b>Hourly Rate</b>
NOTE: <input type="checkbox"/> ON CELL		
THEN ON <input type="checkbox"/> DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
Audio Visual Installation and Services		
	<b>Labor Discipline</b>	<b>Hourly Rate</b>
NOTE: <input type="checkbox"/> ON CELL		
THEN ON <input type="checkbox"/> DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
Security Design and Support		
	<b>Labor Discipline</b>	<b>On-Site Rate</b>
NOTE: <input type="checkbox"/> ON CELL		
THEN ON <input type="checkbox"/> DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
Administrative Services		
	<b>Labor Discipline</b>	<b>On-Site Rate</b>
NOTE: <input type="checkbox"/> ON CELL	IT Project management	175.00
THEN ON <input type="checkbox"/> DROP-DOWN	IT Governance	175.00
BOX TO SELECT LEVEL AND LABOR	IT Marketing and branding	140.00
CATEGORY	Usability Consulting	140.00
	Business Requirements Gathering	110.00
	Business Analysts	110.00
	IT End-User Trainer	110.00

System and System Component Administration Services		
Labor Discipline		On-Site Rate
NOTE: CK ON CELL	Database analysis service	140.00
THEN ON DROP-DOWN	Software coding service	140.00
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
Management Information System MS		
Labor Discipline		On-Site Rate
NOTE: CK ON CELL	System architecture	175.00
THEN ON DROP-DOWN	Database design	175.00
BOX TO SELECT LEVEL AND LABOR	Database Administrators	140.00
CATEGORY		
Installation Services		
Labor Discipline		On-Site Rate
NOTE: CK ON CELL		
THEN ON DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
System Design and Support		
Labor Discipline		On-Site Rate
NOTE: CK ON CELL		
THEN ON DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		
Security		
Labor Discipline		On-Site Rate
NOTE: CK ON CELL		
THEN ON DROP-DOWN		
BOX TO SELECT LEVEL AND LABOR		
CATEGORY		

## Submitted

ATTN: Sheri Keller

Data Services			
		Labor Discipline	On-Site Rate
NOTE: Click ON CELL			
THEN UNDROP-DOWN			
ROW-TO-SELECT LEVEL AND LABOR CATEGORY			
Security Risk Assessment Consulting			
		Labor Discipline	On-Site Rate
NOTE: Click ON CELL			
THEN UNDROP-DOWN			
ROW-TO-SELECT LEVEL AND LABOR CATEGORY			
Personal Computer Support			
		Labor Discipline	On-Site Rate
NOTE: Click ON CELL			
THEN UNDROP-DOWN			
ROW-TO-SELECT LEVEL AND LABOR CATEGORY			
Application Development and Support			
		Labor Discipline	On-Site Rate
NOTE: Click ON CELL			
THEN UNDROP-DOWN			
ROW-TO-SELECT LEVEL AND LABOR CATEGORY			
Senior	Java/J2EE		175.00
Senior	ASP/.NET/MSSQL		175.00
Senior	Programmers for C or C++		175.00
Senior	Programming for HTML		175.00
Senior	Programming for Java		175.00
Junior	Java/J2EE		140.00
Junior	ASP/.NET/MSSQL		140.00
Junior	Programmers for C or C++		140.00
Junior	Programming for HTML		140.00
Junior	Programming for Java		140.00

## **Skill-Set**

### **Administrative Services**

IT Project management  
IT Governance  
IT Strategic Planning  
IT Marketing and branding  
IT Costing and Rate Analysis  
IT CRM  
IT Physical Workspace Planning  
IT Asset Lifecycle Management  
Usability Consulting  
Process/Service Improvement Coordinators  
Service Level Agreement  
IT Portfolio Management  
Business Requirements Gathering  
Business Analysts  
Business Process ENG/MGT and Assessment  
Technical Writer  
IT End-User Trainer  
Capacity Planning & Performance Specialist

### **Infrastructure**

Enterprise Architecture  
Data Center Engineering for High Availability  
Enterprise Application and Desktop Virtualization  
Integration between on-site services with cloud/managed servi  
Network Design and Security  
Identity management and Federation  
Enterprise messaging and/or E-Discovery  
VOIP and Unified Communications  
EDI/HL7 Messaging  
Network Assessment  
SOA Governance  
Complex system performance tuning  
Network Administrator  
Network Specialist

### **System and System Component Administration Services**

Local Area network LAN Maintenance or Support



Database analysis service  
Computer or network or internet security  
System installation service  
System analysis service  
Software coding service  
Mainframe administration services  
Wide area network WAN maintenance or support  
Mainframe Protection Control/Scheduling - Global Variable

**Application Development and Support**

Java/J2EE  
PHP/MySQL  
ASP/.NET/MSSQL  
Creston  
Cold Fusion  
Oracle/PeopleSoft  
COBOL  
Banner  
Mainframe Production Control  
SDLC Performance Management  
SDLC - Business Plans  
Mainframe Systems Support  
AppWorx  
BPEL/SOA  
Luminis Portal  
Metrics Consulting  
SharePoint  
Knowledge Management  
Performance and Monitoring  
CMS Consulting and Content Development  
Programmers for PL/1  
Programmers for C or C++  
Programmers for Assemblers (assembly)  
Programming for Visual Basic  
Programming for HTML  
Programming for Java  
Programming for Basic  
Programming for CLIST

Programmer/System Analyst  
Programming for Shell Scripting (Linux/AIX/Solaris)  
Programming for JCL - Global Variable  
Programming for PowerBuilder  
Graphic Designers  
Programming for COBOL  
Applications Architect  
PeopleSoft Business Analyst  
PeopleSoft Administrator

### **Helpdesk Support**

Application and Personal Computer Support

### **Security Design and Support**

Forensics/Incident response  
Business Continuity/Disaster recovery Planning  
Policy Creation/Compliance  
System Hardening  
Access Control Methodologies  
Vulnerability and Penetration testing  
Code Review  
Security Operations Center Staff

### **Software Maintenance and Support**

Development Software maintenance  
System management software Maintenance

### **Audio/video Installation and Services**

Wire pulls and termination  
Equipment Racking  
Flat Panel Display mounting/rigging  
Speaker mounting/rigging  
Rack Dressing  
Cable Management  
Ability to read and interpret system schematics  
Audio/Visual Design

### **Management Information Systems MS**

Telecommunications Planning Services  
System architecture  
Wide area network communication design  
Local area network communication design

Database design  
Network Planning Services  
Systems Planning Services  
Quality Assurance Inspector/Analyst  
Database Administrators  
Enterprise Service Bus Engineer  
RDS Print Manager  
QC Tester  
Change Coordinators  
Quality Control Planner  
Quality Control Tester

**Installation Services**

Network/Phone Cabling  
Security Cameras  
Classroom Technology

**System Design and Support**

Linux  
Apple  
Microsoft  
Solaris  
Network  
High-performance Computing  
Avaya/Nortel Telephony/IP Telephony  
Performance and Monitoring

**Security**

Security Governance and Management  
Security Policies and Procedures  
Incident Response and Forensics  
Risk management  
Data Classification and Protection  
Vulnerability Assessment and Penetration Testing  
Application Security  
Access Controls  
Network Security  
Security Architectures  
Identity management  
Data Encryption

HIPAA/Privacy

**Data Services**

Disaster Recovery Services

Data Conversion Services

Data Center Services

**Security Risk Assessment Consulting**

Evaluate Network Security (WAN & Backbone components)

Identify Vulnerabilities (Network Element & Architecture Sec

Penetration Testing

Security Program Assessment

Risk Analysis

Social Engineering Testing

Determine Adequacy of Security Measures

**Personal Computer Support**

Microsoft Office

Microsoft PC Operating Systems

Mobile Device support (laptops, tablets, iPads, etc)

PC Peripherals (printers, external drives etc

PC Imaging and Deployment

## Short Description

IT Project management is the discipline of planning, organizing, motivating, and controlling  
Information technology governance is a subset discipline of corporate governance focused  
Information Technology Strategic Planning is a discipline within the Information Technolo  
Marketing is the process of communicating the value of a product or service to customers.  
A benchmarking process to determine cost per standardized unit versus cost to provider in  
Customer Relationship Management is the maintenance of a relationship between a service  
The discipline which concerns itself with not only the physical space which an employee v  
This discipline tracks IT assets from purchase to surplus, and concerns itself with amortiza  
This discipline focuses on ensuring an IT system conforms to the 4 C's of user interface de  
This skillset seeds data from CRM metrics and works with both global statistics and specif  
This discipline focuses on an overall relationship between a customer and a service provid  
Portfolio management is the holistic control of all projects for a given entity and focuses o  
This skillset interacts with the customer on a given endeavor to adequately gather all infor  
Business analysis combines skills such as business requirements gathering, customer relati  
This discipline focuses on working with process and service improvement coordinators, cu  
Technical Writing is a discipline that focuses on providing high-quality, understandable doc  
This discipline focuses on providing adequate training for end users on given IT systems, c  
This discipline concerns itself with the overreaching growth of a service provider, determi

This discipline focuses on taking business and technical requirements from business analy  
This discipline concerns itself with ensuring that services are always available in the conte  
This discipline works to disconnect user applications and environments from physical hard  
This discipline manages integration between on-premises systems inside an entity and outs  
A similar discipline to enterprise architecture, this discipline focuses on how to efficiently  
This discipline focuses on managing mechanisms in which a customer proves their identity  
This discipline focuses on semi-realtime, user-to-user or system-to-system communication  
This discipline focuses on real-time communications between users via voice and video m  
This discipline focuses on exchange of information between dissimilar IT systems by using  
This discipline takes any available (albeit understood to be limited to non-existent) data or  
This discipline provides oversight of IT systems designed to provide a service to a custom  
This discipline involves in-depth analysis of systems running currently in production and l  
This discipline focuses on the management of entire networks, or subsets of networks, and  
This discipline operates underneath of a network administrator in order to provide labor th

This discipline combines the disciplines of network specialist with physical network maint

This discipline focuses on providing troubleshooting, diagnostics, and profiling services s  
This discipline focuses on discovery, management, and mitigation of cybersecurity threats  
This discipline provides a service to install a given system, including integration and produ  
This discipline focuses on providing troubleshooting, diagnostics, and profiling services to  
This discipline provides a service to write software according to technical specifications gi  
This discipline focuses on providing general administration tasks, such as troubleshooting  
This discipline combines the disciplines of network specialist with physical network maint  
This discipline maintains the integrity of a mainframe system from cybersecurity threats ar

This discipline provides development and support activities specific to the Java programm  
This discipline provides development and support activities specific to the PHP programm  
This discipline provides development and support activities specific to the .Net and MSSQ  
This discipline provides development and support for Crestron AV control and automation  
This discipline provides development and support activities specific to the Coldfusion pro  
This discipline provides development and support activities specific to the Peoplesoft ente  
This discipline provides development and support activities specific to the COBOL progra  
This discipline provides development and support activities specific to the Banner Student  
This discipline provides development and support activities related to day-to-day operation  
This discipline provides design, development, review and support activities related to the c  
This discipline provides design, development, review and support activities related to the c  
This discipline provides development and support activities related to existing and planned  
This discipline provides development and support activities specific to the Appworx sched  
This discipline provides development and support activities specific to BPEL (Business Pr  
This discipline provides design, development and support activities related to Luminus poi  
This discipline provides design, development, review and support activities related to the c  
This discipline provides development and support activities specific to Microsoft's Sharep  
This discipline focuses on providing a continual flow of both institutional knowledge and  
This discipline monitors applications to ensure they continue to meet anticipated and desir  
This discipline provides development and support activities related to content managemen  
This discipline provides development and support activities specific to the PL/1 programr  
This discipline provides development and support activities specific to the C and C++ prog  
This discipline provides development and support activities specific to the various assemb  
This discipline provides development and support activities specific to the VisualBasic pro  
This discipline provides development and support activities specific to the hypertext mark  
This discipline provides development and support activities specific to the Java programm  
This discipline provides development and support activities specific to the BASIC program  
This discipline provides development and support activities specific to the CLIST program

This discipline provides development and support activities for various programming languages

This discipline provides development and support activities specific to UNIX Shells (bash, sh, etc.)

This discipline provides development and support activities specific to the JCL programming language

This discipline provides development and support activities specific to the Sybase PowerBuilder database

This discipline works with usability engineers to design useful, usability standard conforming user interfaces

This discipline provides development and support activities specific to the COBOL programming language

This discipline focuses on taking technical and business requirements and designing how to implement them

This discipline focuses on Grants/Projects/Contracts

This discipline focuses on Accounts Receivable/Billing

This discipline provides first layer support activities to individual customers, providing an initial point of contact

This discipline focuses on remediating cybersecurity threats, failures, and incidents, investigating root causes

This discipline focuses on designing, implementing, and testing responses to hypothetical cybersecurity threats

This discipline focuses on developing and auditing policies designed to avert or mitigate risk

This discipline provides in-depth analysis and auditing of system settings and functionality

This discipline focuses on studying current and developing new access control methodologies

This discipline focuses on intentionally trying to compromise the security systems of an organization

This discipline provides analysis of application code to look for potential vulnerabilities in the code

This discipline combines the various security disciplines in a holistic manner that is able to address the entire security posture

This discipline focuses on developing internal tools to aid in development, and maintaining them

This discipline focuses on maintaining internal tools that are used to manage and monitor infrastructure

This discipline focuses on installing physical network cabling infrastructure and terminating it

This discipline focuses on installing physical hardware into system racks and appropriately labeling it

This discipline focuses on mounting flat panel displays to mounts and affixing mounts to racks

This discipline focuses on mounting speakers to given mounting points as well as installing them

This discipline focuses specifically on cable management and rack layout within a rackmount cabinet

This discipline focuses on ensuring that cables are tidily routed through proper hardware in a rack

This discipline focuses on reading diagrams of cabling, server mounting, and other forms of infrastructure

This discipline involves taking the business requirements of an organization and designing the infrastructure to meet them

This discipline focuses on analyzing an organization's voice, video, and data communication needs

This discipline focuses on taking the business and technical requirements for a given system and designing it

This discipline focuses on taking the business need of an organization and designing their network

This discipline focuses on taking the business need of an organization and designing their infrastructure

This discipline utilizes normalization and other techniques to design an efficient and high performance database system

This discipline focuses on analyzing an organization's data communications needs and planning a data communications architecture

This discipline focuses on analyzing an organization's holistic vision for technology use and determining the technology to be used

This discipline focuses on routinely analyzing and auditing deliverables from projects to ensure that they are completed on time and within budget

This discipline focuses on maintaining an RDBMS or other database management system in a secure and reliable state

This discipline focuses on designing a set of standards to be utilized within an organization to ensure consistency and quality

This discipline focuses on managing remote and centralized printers that are attached to a network

This discipline focuses on ensuring consistent quality of systems by testing new versions of software and hardware

This discipline focuses on coordinating any change in the IT services pipeline with other groups within the organization

This discipline focuses on taking historical data from systems and changes and designs set of standards to be utilized within an organization

This discipline focuses on ensuring consistent quality of systems by testing new versions of software and hardware

This discipline focuses on installation of the physical cabling infrastructure necessary for a network

This discipline focuses on installation of security camera systems to ensure reliable video surveillance

This discipline focuses on installation of technical systems which enhance the learning experience of students

This discipline focuses on the design and support of the GNU/Linux operating system and applications

This discipline focuses on the design and support of the Apple OSX and iOS operating systems and applications

This discipline focuses on the design and support of Microsoft Windows operating system and applications

This discipline focuses on the design and support of the Oracle Solaris operating system and applications

This discipline focuses on analyzing an organization's data communications needs and planning a data communications architecture

This discipline focuses on the design and support of "multi-head" clustered computing systems

This discipline focuses on the design and support of current VoIP and legacy circuit-switched telephony systems

This discipline focuses on the continued monitoring and profiling of given systems in order to detect and respond to security threats

This discipline focuses on the design of strategic visions for the direction of security sections within an organization

This discipline focuses on developing and auditing policies designed to avert or mitigate risk to an organization

This discipline focuses on remediating cybersecurity threats, failures, and incidents, investigating the root cause of the problem

This discipline focuses on identifying the inherent cybersecurity risks in a given set of IT systems and applications

This discipline focuses on development of policies for the secrecy level classification of data and information

This discipline focuses on intentionally trying to compromise the security systems of an organization in order to gain unauthorized access

This discipline focuses on developing practices and technical mechanisms to secure an organization's data and information

This discipline focuses on studying current and developing new access control methodologies and technologies

This discipline focuses on ensuring the technical security of a given network by deploying and configuring firewalls, intrusion detection systems, and other security devices

This discipline focuses on taking the strategic security vision for an organization and business and translating it into a set of actionable tasks

This discipline focuses on managing mechanisms in which a customer proves their identity to a system or service

This discipline focuses on deploying and implementing systems to protect the contents of a network or system



This discipline focuses on ensuring health care records and other information is only accessed by authorized personnel

This discipline provides emergency services to help restore the business activities of an organization

This discipline provides services to transform data in one format to another dissimilar format

This discipline provides services to house, protect, and maintain IT assets

This discipline provides services to audit the security and resiliency of major infrastructure

This discipline focuses on using mass scanning tools and other methods to identify current vulnerabilities

This discipline focuses on intentionally trying to compromise the security systems of an organization

This discipline audits and tests the holistic security program to ensure its effectiveness against threats

This discipline focuses on identifying the inherent cybersecurity risks in a given set of IT systems

This discipline focuses on intentionally trying to compromise the security systems of an organization

This discipline focuses on auditing and testing security practices and procedures to ensure compliance

This discipline focuses on providing support for Microsoft's Office product line and its associated applications

This discipline focuses on the design and support of Microsoft Windows operating system

This discipline focuses on design and support of mobile hardware such as laptops and convertible tablets

This discipline focuses on design and support of PC peripherals attached to an individual PC

This discipline focuses on deploying client machines in a quick and efficient manner

ing resources to achieve specific goals.

on information technology (IT) systems and their po  
ogy and Information Systems domain and is concern

order to provide efficient and competitive service ra  
e provider and a customer, ensuring all of the custom  
works in and its layout, but also the ergonomics and  
tion rates and average cost of the lifecycle of a prod  
velopment (control, conveyance, continuity, and cor  
fic instances where there have been shortcomings in  
er, ensuring that the provisions of an SLA (such as u  
n improving processes, maintaining customer relatic  
mation needed to provide the scope of a project  
lationship management, and enterprise architecture to c  
ustomer relationship management, and IT costing dis  
cumentation on technical systems that can provide "I  
ensuring they have up-to-date and useful knowledge  
ning current utilization percentiles, and growth infor

sts in projects, and taking data on service growth fro  
ext of a given uptime requirement in an SLA, ensurin  
lware and make them mobile by pulling them into a  
sourced/"cloud" services provided by another service  
transport data from a client to a server and back aga  
y for access to IT systems, including user accounts an  
mechanisms such as email and instant messaging, a  
echanisms, and ensures interoperability between disc  
g standardized communication protocols in a manne  
n a given IT environment, and analyzes the environm  
er and ensures they conform to the overall strategic v  
now the various pieces interoperate with one another  
is charged with ensuring continuity of service, effic  
at is more focused on a specific discipline of networ

tenance to provide physical and logical support and i

specific to relational database management systems and  
through user education, policy development, technical  
action migration of said system, ensuring it interoperates  
to gain insight into the action of a given system in order  
given, including debugging, testing, and documentation  
problems, maintaining the system, and making any  
tenance to provide physical and logical support and  
and disproportionate resource allocation, ensuring fair

ing language and enterprise environment  
ing language, MySQL RDBMS, and PHP/MySQL e  
QL environment  
i systems  
gramming language and enterprise environment  
rprise environment  
mming language and enterprise environment  
Information System and subcomponents  
ns of mainframe systems  
creation of SDLC Performance Management framework  
creation of SDLC Business Planning documents  
d mainframe systems  
luler solution and subcomponents  
rocess Execution Language) in a Service-Oriented A  
rtal solution  
creation of IT Performance Metrics  
oint framework and its underlying .Net/MSSQL bac  
industry knowledge to employees to allow for effect  
ed benchmarks for performance and availability, and  
t systems  
ing language  
gramming languages  
ly dialects  
ogramming language  
up language  
ing language and enterprise environment  
nming language  
ming language

languages within the environment of given applications  
) and their scripting functionality  
ing language  
builder programming environment  
ant, and aesthetically pleasing interfaces and user de  
m programming language  
applications will work and how to go about program

initial analysis of a problem, finding any potential d

igates said incidents in order to determine causes, m  
or actual disaster scenarios characterized by a catast  
risk involved with cybersecurity threats, and to ensur  
y and seeks remediation action for systems which ha  
gies and how to meet the business needs of an organi  
ganization in order to show flaws in systems and ho  
i software and mitigate the risk prior to deploying co  
o seek proactive remediation of security threats, as w

g other tools in the development toolchain  
internal systems

ng it at both the endpoints  
y routing various forms of cabling to facilitate appro  
a given mounting point and ensuring appropriate stit  
ion and integration of all mounting hardware  
unt system  
n a manner that is both aesthetically pleasing and fur  
of visual instructions  
; audio/visual systems to suit the business need

on needs and plans out an effective course of action  
m and designing a maintainable and extensible archi  
wide-area network connectivity to suit their needs  
local-area network connectivity to suit their needs

performance, but also very intuitive database schemas  
ns out an efficient and scalable network architecture  
nd designs an efficient and scalable architecture for I  
nsure they meet a high standard of quality and that tl  
including writing queries, producing reports, and ens  
n to ensure that dissimilar systems can effectively co  
remote desktop session

of systems as they are rolled out with real-world data  
roups within the organization to ensure that interope  
s of procedures to help ensure that high levels of qua  
of systems as they are rolled out with real-world data

voice, video, and data communications inside of a pl  
streams of data in a manner which is difficult to tam  
perience in schools and elsewhere, can include audio

its associated components  
stems and their associated components  
s and their associated components  
nd its associated components  
ns out an efficient and scalable network architecture  
tems and its operation as a performance-critical syste  
hed Avaya and Nortel telephony systems  
r to ensure service continuity at a desirable level of

ons and how to achieve the strategic visions for the c  
risk involved with cybersecurity threats, and to ensur  
igates said incidents in order to determine causes, m  
systems then attempts to mitigate those risks as much  
ata and how to appropriately secure that data  
ganization in order to show flaws in systems and ho  
ganization's applications  
gies and how to meet the business needs of an organi  
systems to control access to IT assets  
ness requirement of a project and designing an archit  
y for access to IT systems, including user accounts an  
data from unauthorized access in the absense of an a

ssible to individuals who are authorized to access sai

ganization in the event of a catastrophic failure  
nat

e components against attacks such as DDoS' and intr  
vulnerabilities in a given network in order to seek r  
ganization in order to show flaws in systems and ho  
inst existing and emerging threats  
systems then attempts to mitigate those risks as much  
ganization in a non-technical matter by interacting v  
e its effectiveness against existing and emerging thre

sociated products  
s and their associated components  
vertibles as well as iOS devices such as iPads  
PC, including printers, external hard drives, and othe

performance and risk management.

ed with making the planning process for information technology investments and decision

ites

ner's needs are met adequately by the service provider

safety of a workplace, ensuring a healthy and productive workzone

uct

ntext), and ensuring that the IT system is well adjusted to the business process and vice ve

service provided and helps process designers develop new processes and test them in the

uptime requirements, response times, etc) are met

onships, and ensuring a project manager can operate optimally within their own context

etermine efficient sets of requirements and architectural guidelines for projects

disciplines to develop new processes and SOPs that remove the extraneous and unnecessary,

now-to" assistance to end users, as well as provide very technical institutional knowledge

of a given system and how it fits into their business processes

mation, to determine the necessary capacity enhancement of a service provider to continu

om planning specialists and designs enterprise systems to meet current and future demands

ing that customers can use said services, even when something has gone wrong

centrally managed virtualization environment, then providing an access system to the end

e provider to ensure a seamless and invisible user experience between the two

in, in a manner that prevents unauthorized access, and ensures fair use of resources betwe

nd passwords, biometrics, access cards, and other mechanisms. This discipline also focus

nd maintaining an archive of communications between users that can be retrieved on dem

crete systems such that they appear to an end user to behave as a single, holistic system

r that ensures their interoperability

ient in order to provide documentation on the numerous systems within an environment ar

vision of the organization and meet the needs of the organization's customers

; finding bottlenecks and other slow-downs, and then provides action to remove these bot

iciency of the network, and fairness of distribution of network resources

ks (such as wireless or MPLS) and that requires less overall technical knowledge and inst

maintenance activities specific to a local area network as perscribed by the network admin

and other non-RDBMS database systems in order to gain more keen insight into the internal systems design, auditing, and forensic investigation rates with the existing enterprise structure appropriately in order to more keenly understand the internals of the system in order to know how the system operates and how to deploy it and make changes as necessary, specific to mainframe systems and maintenance activities specific to a wide area network as prescribed by the network administrator among batch jobs being processed

environment

tools and methodologies

architecture (SOA)

kind

ive communication and transitions

l to ensure they continue to meet business requirements



documents

running said applications

documentation that describes fixes for problems, and routing support instances to the appropriate

methods, and effects, and provide support to legal teams as necessary

prophic loss of critical infrastructure, and ensuring the continued business activity of an organization

and organizational compliance with these policies

have shown or potential security flaws that allow for unacceptable risk in the event of a cyber

attack while mitigating the risk of data loss or corruption in the event of a cybersecurity t

hreat where they may be exploited so remediation may be sought

move to production

as well as reactively respond to cybersecurity incidents

appropriate cable management

fitness and integrity of the mount

functional

for telecommunication infrastructure

infrastructure allowing for accommodation of current need and future growth

a

IT systems in that organization  
the deliverables continue to behave as expected and desired  
ensuring optimal efficiency of said database system  
communicate with one another and ensure interoperability between applications

and techniques  
reliability is maintained, security is not compromised, and that a high level of quality is kept  
quality are maintained, and how to test the quality of systems in the future  
and techniques

physical presence  
oper with  
audio/video systems, computers, network infrastructure, and other systems

em

performance

organization  
the organizational compliance with these policies  
methods, and effects, and provide support to legal teams as necessary  
as feasible within the organization's strategic vision

when they may be exploited so remediation may be sought

organization while mitigating the risk of data loss or corruption in the event of a cybersecurity t

architecture to ensure the security of a given system while meeting the business need  
and passwords, biometrics, access cards, and other mechanisms. This discipline also focuses  
on the effective mechanism to control this access

d information in a standardized manner that allows for easy portability between dissimilar

usions to ensure business continuity and integrity  
emediation

w they may be exploited so remediation may be sought

1 as feasible within the organization's strategic vision

with people and attempting to extract critical information, such as passwords, out of them c  
eats and also how it affects the businesses

r systems

1-making a quicker, more flexible, and more thoroughly aligned process.

rsa  
field

, and create novel ways to avoid expensive tasks wherever possible, in order to create a  
to technical personnel on given systems

ally meet their customers' needs without any service interruptions

for a given system

user to allow them to access their operating environment and application

en customers

es on interoperability between different identity control mechanisms and establishing t  
and in order to ensure legal compliance with various legislation

nd how they interoperate

tlenecks, and negate any other slow-down or negative performance factor

itutional knowledge than a network administrator

istration teams

ul workings of a database system

ustration teams

appropriate group as necessary

organization post-disaster

cybersecurity threat  
threat

hreat

es on interoperability between different identity control mechanisms and establishing ti

systems

directly



. more efficient and lean workplace

rust between these systems so that one provider's access will be trustworthy to others (i





rust between these systems so that one provider's access will be trustworthy to others (i



.e. federation).







.e. federation).