Embry-Riddle Aeronautical University PMGT611 Problem Analysis and Recommendations Project Human Resource Plan Group One 18 February, 2013

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Brief Project Description:

This project will provide research, analysis, and a recommendation for reorganization of the Forrest University (FU) Information Technology Department (ITD). The project will involve the use of both internal and external experts that will seek to provide alternative solutions to bring all departments of the university under a single information technology (IT) concept of operation that will serve to better manage all systems, applications, networks, and all developmental projects.

Staff Acquisition and Release:

Anticipated sources for staffing include internal resources from the ITD to include: the Chief Information Officer, Assistant Chief Information Officer, Director of Networking and Communications, Business Analysts, and Secretary.

In addition, external sources of staffing will include a contracted Subject Matter Expert (SME) who is certified in commercial networking technology. The SME will provide recommendations for technological solutions based on the results of survey, consultation, and gap analysis information. The project will also sub-contract Cisco Systems Incorporated to provide a recommended solution for hardware and network configuration requirements to meet the desired end state.

Resource Type	Skill Level	No. People	Start Date	Finish Date	Total Hours	Rate
Chief Information Officer	Expert	1	4 Mar 13	15 Mar 13	20	\$52/h
Assistant Chief Information Officer	Expert	1	4 Mar 13	14 Mar 13	22	\$44/h
Network & Communications Director	Expert	1	4 Mar 13	11 Mar 13	18	\$36/h
Business Analyst	Advanced	1	8 Mar 13	14 Mar 13	10	\$22/h
Secretary	Intermediate	1	7 Mar 13	14 Mar 13	7	\$19/h
Subject Matter Expert	Expert	1	5 Mar 13	14 Mar 13	50	\$150/h
Sub-contractor (Cisco)	Expert	n/a	6 Mar 13	15 Mar 13	n/a	\$7000

Planned Staffing Requirements:

Project Specific Training:

None required.

Staffing Qualifications/Certifications:

Sub-contractor of IT Systems must, at a minimum, provide a person(s) having Cisco Certified Network Professional CCNP Certification. The CIO, ACIO, and Network and Communications Director positions must have Project Management Professional (PMP) certifications. Additionally, the Network and Communications Director and SME will have Microsoft Certified Systems Engineer (MCSE) and Certified Information Systems Security Professional (CISSP) certifications.

Project Position Description				
Project Title Date Prepared				
Chief Information Officer 13 Feb 13				
Position Description:				
The Chief Information Officer (CIO) will be res	ponsible for gather	ring and organization of		
information and leading efforts toward project co				
and Evaluation of IT firm Consultation, Conduc	ting Meetings, and	Project Plan Development		
and delivery.				
Responsibilities:				
The CIO will:				
A1.1c Consult IT firms				
A1.1d Review and Evaluate survey results and	T firm consultation	on recommendations		
A1.2a Review State of the Art/Identify Needs				
A1.3c Develop meeting agenda				
A1.3d Conduct decision Meeting				
A1.3g Develop final plan to present to the steer	ing committee			
A1.3h Deliver Read-Ahead Packet.				
Skill Requirements:				
Senior level knowledge of IT and business proce	esses. Senior level	management skills and		
experience.		-		
Qualifications/Certifications:				
Project Management Professional (PMP) certific	ation.			
rojeet Management Professional (PWP) contineation.				
Creatista Training				
Specialty Training:				
None				
Planned Position Start date: Planned Position End Date:				
4 Mar 13 15 Mar 13				
Project Contact Person Name/Title:				
Dr. Sum Yung Guy/Chief Information Officer				
Contact Email Address		Contact Phone		

Project Position Description			
Project TitleDate PreparedAssistant Chief Information Officer13 Feb 13			
Position Description: The Assistant Chief Information Officer (ACIO) will be responsible for gathering information on current state of the art structures at universities and other institutions of higher learning. The ACIO will also analyze and evaluate survey results for submission of project team recommendations. Deliverables will include: Survey Organizational Structures, Evaluate survey results and recommendations, Perform Gap Analysis, Conduct Decision Meeting, and Develop Final Plan.			
Responsibilities:The ACIO will:A1.1a Survey universities ITD org. structuresA1.1d Review and Evaluate survey results and IT firm consultation recommendationsA1.2a Review State of the Art/Identify NeedsA1.2c Identify Processes and Applications currently in useA1.2f Perform Gap AnalysisA1.3d Conduct decision MeetingA1.3g Develop final plan to present to the steering committee			
Skill Requirements: Senior level knowledge of IT and business processes. Senior level management skills and experience.			
Qualifications/Certifications: Project Management Professional (PMP) certification.			
<u>Specialty Training:</u> None			
Planned Position Start date: 4 Mar 13			
Project Contact Person Name/Title: Dr. Sum Yung Guy/Chief Information Officer			
Contact Email Address		Contact Phone	

Project Position Description			
Project Title	Date Prepared		
Network and Communications Director	13 Feb 13		
Position Description: The Network and Communications Director is a for all budget, staffing, and technical issues and s will research various university IT system config evaluate survey results, and provide a recommen	solutions within the organization. This position gurations, identify facility needs, analyze and		
Responsibilities:The Network and Communications Director will:A1.1b Survey universities IT configurationA1.1d Review and Evaluate survey results and IT firm consultation recommendationsA1.2b Identify facility requirements and allotmentA1.2e Baseline End State			
Skill Requirements: Senior level knowledge of IT and business processes. Senior level management skills and experience.			
<u>Qualifications/Certifications:</u> Microsoft Certified Systems Engineer (MCSE) Certified Information Systems Security Professional (CISSP) Project Management Professional (PMP) certification			
Specialty Training: None			
Planned Position Start date:Planned Position End Date:4 Mar 1311 Mar 13			
Project Contact Person Name/Title: Dr. Sum Yung Guy/Chief Information Officer			
Contact Email Address	Contact Phone		
Project Position			
Project Title Business Analyst	Date Prepared 13 Feb 13		

Position	Description:

The Business Analyst (BA) will be responsible for conducting cost analysis and budget constraints of the project. The BA will also provide budget and cost analysis inputs during the project team decision briefing.

Responsibilities:

The BA will: A1.2d Perform economical/technological value point trade study A1.3d Conduct decision Meeting

Skill Requirements:

This position is an intermediate	level position and	l requires budget	analysis and cost accounting
acumen.			

Qualifications/Certifications: None

Specialty Training:

Organizational internal budgeting and cost training.

Planned Position Start date:	Planned Position End Date:
8 Mar 13	14 Mar 13

Project Contact Person Name/Title: Dr. Sum Yung Guy/Chief Information Officer

Contact Email Address	Contact Phone

Project Position Description			
Project Title Date Prepared			
Subject Matter Expert (SME)		13 Feb 13	
Position Description:			
The SME will be responsible for surveying resul			
identifying technology needs, performing gap an			
research and the desired end-state information, a	nd contributing to	the conduct of the decision	
meeting.			
Responsibilities:			
The SME will:			
A1.1d Review and Evaluate survey results and	IT firm consultati	on recommendations	
A1.1e Prepare report detailing findings and rec			
A1.2a Review State of the Art/Identify Needs			
A1.2b Identify facility requirements and allotm	ient		
A1.2c Identify Processes and Applications curr	ently in use		
A1.2d Perform economical/technological value	point trade study		
A1.2e Baseline End State	•		
A1.2f Perform Gap Analysis			
A1.3a Gather and organize research			
A1.3d Conduct Decision Meeting			
A1.3g Develop final plan to present to the steer	ring committee		
Skill Requirements:	-		
This position will be an expert in commercial net	working technolog	IV.	
Qualifications/Certifications:			
Microsoft Certified Systems Engineer (MCSE)			
Certified Information Systems Security Profession	onal (CISSP)		
Specialty Training:			
None			
Planned Position Start date:	Planned Position	End Date:	
5 Mar 13	14 Mar 13		
Project Contact Person Name/Title:			
Dr. Sum Yung Guy/Chief Information Officer			
Contact Email Address		Contact Phone	

Project Position Description				
Project Title	_	Date Prepared		
Secretary		13 Feb 13		
Position Description: The Secretary will be responsible for assisting in identification, as well as, meeting scheduling and		of research results and needs		
Responsibilities: The Secretary will: A1.2a Review State of the Art/Identify Needs A1.3b Schedule meeting A1.3e Capture meeting minutes and final decision				
A1.3g Develop final plan to present to the steering committee				
Skill Requirements: This position will be qualified in performing administrative style tasks to include organizational note taking skills.				
Qualifications/Certifications: None				
Specialty Training: None				
Planned Position Start date: 7 Mar 13	Planned Position 14 Mar 13	End Date:		
Project Contact Person Name/Title: Dr. Sum Yung Guy/Chief Information Officer				
Contact Email Address		Contact Phone		

Project Position Description			
Project Title		Date Prepared	
Sub-contract Cisco		13 Feb 13	
Position Description:			
Sub-contract Cisco to identify hardware/software	e and facility upgra	ade requirements as a result of	
the desired end state and final plan.			
Responsibilities:			
The project team will:			
A1.3f Contract Cisco for hardware, software and	nd facilities upgra	des	
Skill Requirements:	1 1		
This position requires expertise in commercial ne	tworking technolo	gy.	
Qualifications/Certifications:			
Cisco Certified Network Professional CCNP Cer	rtification		
Cisco Certifica Network i foressional Certifice	lineation		
Specialty Training:			
None			
Planned Position Start date:	Planned Position	End Date:	
5 Mar 13	14 Mar 13		
Project Contact Person Name/Title:			
Dr. Sum Yung Guy/Chief Information Officer			
Contact Email Address		Contact Phone	

Appendix: Work Breakdown Structure (WBS) Dictionary

WBS Structure

1 Problem analysis and recommendations

1.1 Research

1.1.1 Current State of the Art

1.1.2 Current Organization Structure

1.2 Current Shortfalls

1.2.1 Desired End State

1.2.2 Gap Analysis

1.3 Recommendation

1.3.1 Decision Meeting

1.3.2 Research

1.3.3 The Plan

WBS Basis of Estimate							
WBS Element No./Name:		Date:					
WBS 1.1/Research		13 Feb 13					
Author/Organization:							
Duane Graham/Forrest University							
Email Address:		Phone:					
Estimate Summary:							
Labor	\$3,720.00						
Total	\$3,720.00						

WBS Element Description:

After attending the project kick-off meeting, a rapid, yet concerted effort will be made to survey other universities within the newly formed alliance to determine both the organizational structure of their information technology department (ITD) and the composition/configuration of their hardware/network. Additionally, no less than two firms specializing in information technology (IT) infrastructure layout and configuration will be consulted to determine what constitutes a state of the art system. This element will also serve to review and assess the current organizational structure of the Forrest University (FU) ITD, and the IT configuration of all university departments, to suggest where improvements might be made to effectively and efficiency impact project development.

Activities Description:

A1.1a Survey universities to ascertain their ITD organizational structure.

A1.1b Survey universities to ascertain the composition of their IT hardware/network.

A1.1c Consult IT firms specializing in infrastructure layout/configuration.

A1.1d Retain subject matter expert (SME) to review and evaluate organizational structure and configuration of surveyed universities.

A1.1e Prepare report detailing finding and recommendation for FU to become "state of the art."

Key Cost-Driving Assumptions:

Major costs considerations for this basis of estimate are funds required for subject matter expert (SME) consultation on short notice.

Task Entry/Exit Criteria:

Task Entry: Participate in kick-off meeting to ensure objectives are clearly defined and understood.

Task Exit: Compose a comprehensive report detailing the requirement needed for FU to operate in a state of the art environment.

				Labor Hours By Labor Category					
Labor	Detailed Task Description WBS 1.1	Start Date	End Date	CIO \$52.00 hr.	ACIO \$44.00 hr.	Dir. Network & Communications \$36.00 hr.	SME \$150.00 hr.		Activity Cost
A1.1a	Survey universities ITD org. structures	4 March, 2013	4 March, 2013		8				\$352.00
A1.1b	Survey universities IT configuration	4 March, 2013	4 March, 2013			8			\$288.00
A1.1c	Consult IT firms	4 March, 2013	4 March, 2013	8					\$416.00
A1.1d	Review and Evaluate survey results and IT firm consultation recommendations	5 March, 2013	5 March, 2013	2	2	2	8		\$1464.00
A1.1e	Prepare report detailing findings and recommendation	6 March, 2013	6 March, 2013				8		\$1200.00
		Total Hours by Category:		10	10	10	16		
		Total Labor Cost by Category:		\$520	\$440	\$360	\$2400	Total Cost:	\$3720.00

WBS Element No./Name: Date:_ WBS 1.2/Current Shortfalls 13 Feb 13 Author/Organization:	WBS Basis of Estimate									
Author/Organization: Chris Blackwell Email Address: Phone: Estimate Summary: Labor \$4770.00 Total \$4770.00 WBS Element Description: In order to move to an effective ITD, a list must be compiled of shortfalls in the current information technology plan. After the state of the art of IT is defined, trade studies must be done to decide which elements are required by the new ITD. After an expected end state is baselined, a gap analysis must be done. This will identify the usage gap. Once the gap is identified, a trade study can be done to ascertain the best HR plan to efficiently integrate a new system. Activities Description: A1.2a Review the state of the art/identify needs A1.2b Identify facility allotments and requirements A1.2c Identify all IT processes and applications currently in use A1.2d Perform economical/technological value point trade study A1.2e Baseline desired end state A1.2f Develop Gap analysis Kev Cost-Driving Assumptions: The major cost drivers for this WBS are the trade study and the gap analysis. These will require a high number of labor hours. Task Entry/Exit Criteria: Test and study and the gap analysis.	WBS Element No./Name:	Date:								
Chris Blackwell Email Address: Phone: Estimate Summary:	WBS 1.2/Current Shortfalls	13 Feb 13								
Email Address: Phone: Estimate Summary:	Author/Organization:									
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A1.2c Identify all IT processes and applications currently in use A1.2d Perform economical/technological value point trade study A1.2e Baseline desired end state A1.2f Develop Gap analysis Key Cost-Driving Assumptions: The major cost drivers for this WBS are the trade study and the gap analysis. These will require a high number of labor hours. Task Entry/Exit Criteria:										
A1.2d Perform economical/technological value point trade study A1.2e Baseline desired end state A1.2f Develop Gap analysis <u>Key Cost-Driving Assumptions:</u> The major cost drivers for this WBS are the trade study and the gap analysis. These will require a high number of labor hours. <u>Task Entry/Exit Criteria:</u>	A1.2b Identify facility allotments and requirements									
A1.2e Baseline desired end state A1.2f Develop Gap analysis <u>Key Cost-Driving Assumptions:</u> The major cost drivers for this WBS are the trade study and the gap analysis. These will require a high number of labor hours. <u>Task Entry/Exit Criteria:</u>										
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	The major cost drivers for this WBS are the trade study and the ga	p analysis. These will require								
Entry Criteria:	Task Entry/Exit Criteria:									
Report detailing the state of the art of IT	Report detailing the state of the art of IT									
A synopsis of the current organizational structure	A synopsis of the current organizational structure									
Exit Criteria:	Exit Criteria:									
A baseline end state shall be established										
A gap analysis shall be documented	A gap analysis shall be documented									

				Labor Hours By Labor Category						
Labor	Detailed Task Description WBS 1.1	Start Date	End Date	CIO \$52	ACIO \$44	Business Analyst \$22	SME \$150	Dir. Network & Communications \$36.00 hr.	Secretary \$19	EST Total Cost
A1.2a	Review State of the Art/Identify Needs	7 March, 2013	7 March, 2013	2	2		2		2	\$530.00
A1.2b	Identify facility requirements and allotment	7 March, 2013	7 March, 2013				2	4		\$444.00
A1.2c	Identify Processes and Applications currently in use	7 March, 2013	7 March, 2013		2		2			\$388.00
A1.2d	Perform economical/technological value point trade study	8 March, 2013	8 March, 2013			8	8			\$1376.00
A1.2e	Baseline End State	11 March, 2013	11 March, 2013				4	4		\$744.00
A1.2f	Perform Gap Analysis	12 March, 2013	12 March, 2013		2		8			\$1288.00
		Total Hours by Category:		2	6		26	8	2	
		Total Labor Cost by Category		\$104	\$264	\$176	\$3900.00	\$288	\$38.00	\$4770.00

	WBS Basis of Estimate							
WBS Element No./Name:		Date:						
WBS 1.3/Recommendation		13 Feb 13						
Author/Organization:		I						
Morgan Evans								
Email Address:		Phone:						
Estimate Summary:								
Labor	\$2019.00							
Subcontracts	\$7000.00							
Total	\$9019.00							
WBS Element Description	1:							
is defined research on requir	-	ucture. Once the organization structure acilities upgrades needs to be conducted changes.						
Activities Description:								
Activities Description.								
A1.3a Gather and organize	research							
	research							
A1.3a Gather and organize								
A1.3a Gather and organize a A1.3b Schedule meeting	nda							
A1.3a Gather and organize a A1.3b Schedule meeting A1.3c Develop meeting age	enda eeting							
A1.3a Gather and organize a A1.3b Schedule meeting A1.3c Develop meeting age A1.3d Conduct decision Me A1.3e Capture meeting min	enda eeting	es upgrades required						
A1.3a Gather and organize a A1.3b Schedule meeting A1.3c Develop meeting age A1.3d Conduct decision Me A1.3e Capture meeting min A1.3f Contract Cisco for ha A1.3g Develop the final pla	enda eeting utes and final decision rdware, software and facilition n to present to the University							
A1.3a Gather and organize a A1.3b Schedule meeting A1.3c Develop meeting age A1.3d Conduct decision Me A1.3e Capture meeting min A1.3f Contract Cisco for ha	enda eeting utes and final decision rdware, software and facilition n to present to the University							
A1.3a Gather and organize a A1.3b Schedule meeting A1.3c Develop meeting age A1.3d Conduct decision Me A1.3e Capture meeting min A1.3f Contract Cisco for ha A1.3g Develop the final pla	enda eeting utes and final decision rdware, software and facilition n to present to the University Packet							
A1.3a Gather and organize a A1.3b Schedule meeting A1.3c Develop meeting age A1.3d Conduct decision Me A1.3e Capture meeting min A1.3f Contract Cisco for ha A1.3g Develop the final pla A1.3h Deliver Read-Ahead Key Cost-Driving Assump	enda eeting utes and final decision rdware, software and facilitie n to present to the University Packet <u>otions:</u> ne contract work by Cisco an							

				Labor Hours By Labor Category					
Labor	Detailed Task Description WBS 1.1	Start Date	End Date	CIO \$52.00	ACIO \$44.00	Business Analyst \$22.00	SME \$150	Secretary \$19.00	Total Cost
A1.3a	Gather and organize research	13 March, 2013	13 March, 2013				2		\$300.00
A1.3b	Schedule meeting	13 March, 2013	13 March, 2013					1	\$19.00
A1.3c	Develop meeting agenda	13 March, 2013	13 March, 2013	1					\$52.00
A1.3d	Conduct decision Meeting	14 March, 2013	14 March, 2013	2	2	2	2		\$536.00
A1.3e	Capture meeting minutes and final decision	14 March, 2013	14 March, 2013					2	\$38.00
A1.3g	Develop final plan to present to the steering committee	14 March, 2013	14 March, 2013	4	4		4	2	\$1022.00
A1.3h	Deliver Read-Ahead Packet	15 March, 2013	15 March, 2013	1					\$52.00
		Total H	Hours by Category:	8	6	2	8	5	
		Total Labo	r Cost by Category	\$416	\$264	\$44.00	\$1200.00	\$95.00	\$2,019.00
Subcontract	Task Statement/Activity				Con- tractor	Location	Total \$		Est. \$\$\$
A1.3f	Contract Cisco for hardware, software and facilities upgrades				Cisco		\$7,000		\$7,000