

ACITS3 TASK ORDER FORM

PART I - TASK ORDER INFORMATION - CIVIL SERVANT

Contract No.: NNA13AB88C		Contract Title: Ames Consolidated Information Technology Services (ACITS3) Contract		
Task Title: Human-Systems Interface Research			Start Date: October 1, 2014	End Date: September 30, 2015
Task Order No. Y14	Task Mod No. 0	Service Request No.	Customer Code Code YN	SOW Reference C.3.1.5
TASK REQUESTER EMAIL: (b) (6)		NAME: Ernie Moralez		PHONE: (b) (6)
FINANCIAL MANAGER EMAIL: (b) (6)		NAME: Sam Caires		PHONE: (b) (6)
COMPUTER SECURITY OFFICER EMAIL: (b) (6)		NAME: Roy Shishido		PHONE: (b) (6)
TASK PREVIOUSLY COVERED BY ANOTHER CONTRACT OTHER THAN PREDECESSOR TO INCUMBENT? (If YES, provide in SOW) NO				
DOES THE TASK REQUIRE ACCESS TO GOVERNMENT DATABASES? (If YES, indicate in SOW) NO				

SECTION 508, ELECTRONIC AND INFORMATION TECHNOLOGY ACCESSIBILITY COMPLIANCE (EITAC)

DOES THE TASK INCLUDE EIT ITEMS (Please review the EITAC documentation) No, the task does not include EITAC items. Upon receipt of this task order request, the contractor shall review the task requirement(s) and inform the Government, as part of its task order/modification response, any discrepancies between standards initially cited and those the contractor proposes to deliver to the Government. Examples of discrepancies include ODCs for which some other standard might be or become applicable and, as a result, require citation in the task order, as well as any cited standards that the contractor believes is not applicable (provide rationale). Note: If, by mistake, the task, including and ODC of the task, should not meet an applicable standard not cited by the requester, it is the requester, not the contractor who is a fault; and the requester must find a way (e.g., by modifying the task request) to bring the task into compliance. In such cases, the requester shall complete a revised ARC form 789 (or equivalent) before the task order/modification is approved.

GOVERNMENT FURNISHED EQUIPMENT (GFE)

Government will provide all appropriate equipment and software necessary for the performance of this task unless otherwise noted in this task order. The contractor in accordance with the contract can acquire equipment not presently available as GFE. Equipment identified as task unique will be expensed to the task in accordance with ACITS3 accounting policy, and will be defined as GFE in the Government inventory. All other equipment purchases will be depreciated and be contractor property. The contractor shall follow NASA Ames rules regarding movement and assignment of government owned equipment and ODIN supplied equipment and provide information upon request for the following: Property Assignments, Property Location, and Unused Equipment.

AFFIRMATIVE PROCUREMENT (See <http://www.epa.gov/cpg/products.htm>)

The item(s) being purchased are NOT on any of the EPA's Comprehensive Procurement Guideline lists. - AND - They meet the minimum recycled/recovered content.

TASK DESCRIPTION - STATEMENT OF WORK - REQUIREMENTS

Please enter this information on pages 2, 3, and 4.

COTR SIGNATURE: KIRSTEN NAGEL

Digitally signed by KIRSTEN NAGEL
DN: c=US, o=U.S. Government, ou=NASA, ou=People, ou=KIRSTEN NAGEL, o=US2302.F200000.000.1.1, email=k.nagel@nasa.gov, cn=KIRSTEN NAGEL

CO SIGNATURE: ANJENNETTE CONTRERAS-RODRIGUEZ

Digitally signed by ANJENNETTE CONTRERAS-RODRIGUEZ
DN: c=US, o=U.S. Government, ou=NASA, ou=People, ou=ANJENNETTE CONTRERAS-RODRIGUEZ, o=US2302.F200000.000.1.1, email=a.contreras@nasa.gov, cn=ANJENNETTE CONTRERAS-RODRIGUEZ

PART 2 - TASK ORDER PLAN PROPOSAL - CONTRACTOR

CATEGORIES	CURRENT REQUEST	PRIOR CUMULATIVE ESTIMATE WITHOUT CURRENT REQUEST	TOTAL CUMULATIVE TASK ESTIMATE
Labor Hours:	(b) (4)		
Labor:			
ODC Subcontracting:			
ODC Material:			
ODC Travel:			
ODC Training:			
Program Mgt Cost:			
Fee:			
Totals:			

PART 3 - APPROVAL SUMMARY - BOTH

APPROVED BY	SIGNATURE AND DATE	EMAIL ADDRESS	PHONE
1. TECH AREA MGR.:	(b) (4), (b) (6) 09/17/2014	(b) (4), (b) (6)	(b) (4), (b) (6)
2. BUSINESS MGR.:	09/17/2014		
3. PROGRAM MGR.:	09/17/2014		
4. TASK REQUESTER:	MORALEZ, ERNESTO (b) (6) 09/29/2014	(b) (6)	(b) (6)
5. DIVISION LEVEL:	MAIER, THOMAS, H. (b) (6) 09/29/2014		
6. COTR:	KIRSTEN NAGEL 09/30/2014		
7. CO:	ANJENNETTE CONTRERAS-RODRIGUEZ 09/30/2014		

ACITS3 TASK ORDER FORM (Continued)

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PRICING
Cost Plus Fixed Fee

FUNDING LEVEL
TASK LEVEL

TASK DESCRIPTION - STATEMENT OF WORK REQUIREMENTS

The purpose of this task is the design, integration, testing, and evaluation of software and hardware used for aviation human factors research as applied to helicopters and unmanned aerial system ground control station operations. This task shall support the human-systems interface research efforts of scientist and engineers with the U.S. Army Aeroflightdynamics Directorate, AFDD, (Code Y) at Ames Research Center.

Task 1: Obstacle Database Software Development

1. The Terrain and Obstacle Avoidance Displays (TOAD) project is conducting research in the area of developing display and warning systems for terrain and obstacle avoidance for use in Army helicopters.

1.1 The task will develop, program, and implement five additional helicopter obstacle routes, including cell phone towers, power wires, antennas, buildings, trees, etc. of various heights and widths, into the U.S. Army database using the .FLT format for use in TOAD research simulation evaluations.

Task 2: Flight Guidance Engineering Support

(b) (7)(E)

(b) (7)(E)

2.2 Analyze sample flight test data from flights at Moffett Field CA and Yuma Proving Ground AZ. In particular, evaluate whether any data is missing that should be collected during the formal flight testing in July 2013. As much as practical, evaluate the quality of the data.

(b) (7)(E)

2.4 Provide engineering technical flight test support. Support simulation integration and testing at the AFDD simulation facility at Moffett Field, CA, and at the AFRL "SIRE" simulator at Wright Patterson AFB, OH. Support aircraft integration and testing on the AFDD EH-60L flight test aircraft at Moffett Field, CA, and at Yuma Proving Ground, AZ.

(b) (7)(E)

Task 3: Terrain and Obstacle Avoidance Display (TOAD) System Development

(b) (7)(E)

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3.1 Develop a Simulation Test Plan. Assist in planning the TOAD experiment and write a comprehensive simulation test plan. Document the purpose of the test, the testing methodology, the hardware and software requirements, milestones, test planning and execution schedule, and other technical details describing the TOAD simulation.

3.2 Develop Flight Routes and Obstacle Database. Develop three flight routes for use in the TOAD piloted simulation testing. Select the type of hazard and location for wires,towers, and other obstacles along each flight route that will be detected and displayed to the pilot on the cockpit display.

3.3 Pilot Support for Simulation Testing. Provide piloting skills and subject matter expert support to test prototype TOAD display designs in the AFDD flight simulator.

Task 4: Unmanned Aerial System (UAS) Research Support

4. A research effort that addresses human-systems integration issues associated with manned/unmanned teaming (MUM-T) technologies is a key technology studied by AFDD scientists and engineers.

4.1 Conduct an Unmanned Aerial Systems (UAS) simulation and simulator requirements analysis in preparation for conducting the next UAS manned/unmanned teaming (MUM-T) simulation in the AFDD Human-Systems Integration (HSI) laboratory.

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SPECIFIC DELIVERABLES AND DELIVERABLE DATES

No.	Type of Deliverable	Description of Deliverable	Date Required	Row Controls
1	Performance	Application software (including utilities, scripts, modifications, etc.)		
2	Performance	Test and evaluation software and data (including test scripts, results, etc.)		
3	Performance	Operating procedures and checklists		
4	Performance	Software description documents		
5	Performance	Support Services		
6	Performance	Monthly reports		
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18				
19				
20				

TRAVEL, TRAINING AND MATERIALS REQUIREMENTS

No.	Type of Requirement	Description	Date Required	Row Controls
1	Training	Training specific to specific vendor software and hardware tools	TBD	
2	Material	Technical books/manuals	TBD	
3				
4				
5				
6				

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[illegible]

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IT SECURITY REQUIREMENTS

Consistent with NPG 2810.1, the specific IT Security requirements to be delegated to the contractor, under this ACITS3 task are as follows:
(Please address the following topics/questions, if applicable, concerning the intended task).

a. This Task's activities have been identified as being covered under an organizational IT Security Plan. This Task does not support applications that have been designated as a "Special Management Attention" applications. If "Special Management Attention" applications do exist please describe:

b. Periodic reviews of IT Security measures are necessary. What is the role of the ACITS3 contractor under this ACITS3 Task in areas such as review of user accounts, account management, data backup and restoration, use of warning banner, use of encryption, vulnerability scanning, and security tools?
Please describe as appropriate:
N/A

c. Typically, the Task will not be involved with activities that require compliance with NASA's NPG 2810.1 and Ames' APG 2410.1 that define the requirements for reuse, reassignment or accessing of IT assets and/or their release for repair; if such an activity does occur, the Task Requester will be contacted to identify the civil servant who will have oversight and approval for reuse, reassignment or accessing of IT assets and/or their release for repair associated with this task.

d. The Task personnel are trained in NASA's and Ames' policies and procedures relating to IT Security and will participate in the required annually IT security training to maintain proficiency. There are no specialized security training requirements associated with this task.

If appropriate, specialized training requirements are described as follows:

e. Is a security clearance needed for any personnel on this task? If so, what level of clearance is required?
A Secret security clearance may be required for some work under this task.

f. There are no other IT Security requirements associated with this ACITS3 Task.

If appropriate they are described as follows:

g. There are no specific IT Security Deliverables associated with this ACITS3 Task.

If appropriate they are as follows:

- ☐ IT Risk Assessment
- ☐ IT Security Plan
- ☐ IT Contingency Plan
- ☐ IT Security Vulnerability Test Results
- ☐ Results of periodic IT Security Reviews
- ☐ Other documentation as follows:
Report of status of IT Security Plan, Contingency Plan, and Risk Assessment of critical services provided by Code I

h. In the event of an IT Security Incident associated with systems and data under this Task, the Ames Chief Information Security Official, the Security Operations Center (SOC), and the Task Requester will be notified immediately by the contractor. In order to ensure full coordination, the following individuals will also be notified in the event of an IT Security Incident:

System Owner (Responsible for the applicable IT Security Plan)

Name: Roh Shishido

Phone: (b) (6)

Organization's Computer Security Official

Name: Roh Shishido

Phone:

Alternate System Owner

Name:

Phone:

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Note Creator		Note Title			Date Created
Note					
Note Creator		Note Title			Date Created
Note					
Note Creator		Note Title			Date Created
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