

From: Mack, Brian (MAJ)
Sent: Friday, October 02, 2009 8:27 PM
To: Yoder, Tera Contractor, GB
Cc: Mack, Brian (MAJ); Dillard, John (CIV)
Subject: Request for acceptance into Acquisition Research Program

Dear Acquisition Chair,

I am requesting acceptance into the Acquisition Research Student Program with travel funding. Attached is the approved project proposal.

Title: Business Case Analysis – Live Training Transformation (LT2); Integrate technology of existing software defined radios and waveforms to meet current requirements within the training and testing community.

Objectives: The purpose of this business case is to analyze a technological strategy to leverage the Joint Tactical Radio System (JTRS) Manpack, Small Form Fit (HMS) and PM ITTS' HYNET software investments to meet current user requirements within the Army training and testing community. The business case will:

- Identify potential cost savings by comparing potential solution against current programs
- Define and quantify risk
- Recommended course of action to senior acquisition leaders within PEO STRI

Summary: There are three programs within PEO STRI that might benefit from a common solution to meet data and voice communication requirements. The One Tactical Engagement Simulation System (OneTESS) is a family of compatible, live environment, engagement capabilities that replicate weapon effects of all combat weapon systems in the conduct of collective training and testing. I-HITS, OneTess, and OT-TES differ in their requirements for number of players they need to support and operations range, but share the common requirement to transmit and collect data. Software defined radios are scalable and can support multiple waveforms to achieve a wide range of communication requirements. One or more of these programs could benefit from leveraging software defined radio technology to reduce risk and costs within their respective programs. In addition, a common solution applied to all three programs could produce significant cost savings.

Student: Brian Mack MAJ, AR

Graduation: June 2010

Advisors: Lead Advisor Professor John Dillard, Support Advisor Lt Col Karl D. Pfeiffer, PhD

Support Requested: Editor/Transcription/Travel

Travel Budget Requested:

- Traveler:
 - MAJ Brian Mack
- Estimated Travel Dates/Locations:
 - November 15-19 (Orlando, FL)
 - January 17-21 (San Diego, CA)
 - February 14-18 (Pheonix, AZ)
- Purpose
 - Collect data, meet with project leaders and engineers, meet with contracting officers, update project objectives

- Travel Requirements
 - Round Trip Airfare \$1,692.40
 - Car Rental \$640.02
 - Lodging \$1,472.00
 - Meals & IE \$774.00
 - Hotel Tax \$150.00
 - Gas \$150.00
 - RT Taxi \$160.00
 - **Total** **\$5048.42**

Respectfully,

Brian Mack

MAJ, AR

815 Business Student, NPS