

POSITION DESCRIPTION (Please Read Instructions on the Back)

1. Agency Position No. NL12560

2. Reason for Submission: Redescription, New, Reestablishment, Other

3. Service: Hdqtrs., Field

4. Employing Office Location: Orlando, FL.

5. Duty Station:

6. OPM Certification No.:

7. Fair Labor Standards Act: Exempt, Nonexempt

8. Financial Statements Required: Executive Personnel Financial Disclosure, Employment and Financial Interests

9. Subject to IA Action: Yes, No

10. Position Status: Competitive, Excepted (Specify in Remarks:)

11. Position is: Supervisory, Managerial, Neither

12. Sensitivity: 1 - Non-Sensitive, 2 - Noncritical Sensitive, 3 - Critical Sensitive, 4 - Special Sensitive

13. Competitive Level Code *

14. Agency Use

15. Classified/Graded	Official Title of Position	Pay Plan	Occupational Code	Grade	Initials	Date
a. U.S. Office of Personnel Management						
b. Department, Agency or Establishment						
c. Second Level Review						
d. First Level Review	Interdisciplinary Lead General/Computer/Electronics Engineer/Computer Scientist	GS	0801/0854/0855/1550 (13)	14		
e. Recommended by Supervisor or Initiating Office						

16. Organizational Title of Position (if different from official title): Chief Engineer, Immersive Technology Team (ITT)

17. Name of Employee (if vacant, specify):

18. Department, Agency, or Establishment: Department of the Army (DA)

c. Third Subdivision: Directorate for Engineering and Technology Development (DETD)

a. First Subdivision: U.S. Army Materiel Command (AMC)

d. Fourth Subdivision: Immersive Technologies Business Area

b. Second Subdivision: Simulation, Training and Instrumentation Command (STRICOM)

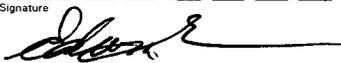
e. Fifth Subdivision:

19. Employee review - This is an accurate description of the major duties and responsibilities of my position.

20. Supervisory Certification. I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out Government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violations of such statutes or their implementing regulations.

a. Typed Name and Title of Immediate Supervisor: Edwin A. Trier, Director, Directorate for Engineering and Technology Development (DETD)

b. Typed Name and Title of Higher-Level Supervisor or Manager (optional):

Signature:  Date: 3/7/02

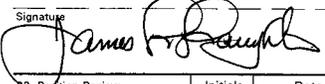
Signature: _____ Date: _____

21. Classification/Job Grading Certification. I certify that this position has been classified/graded as required by Title 5, U.S. Code, in conformity with standards published by the U.S. Office of Personnel Management or, if no published standards apply directly, consistently with the most applicable published standards.

22. Position Classification Standards Used in Classifying/Grading Position: USOPM PCS for Computer Engineering Series, GS-0854, Jan 88; PCS for Electronics Engineering Series, GS-0855, Feb 71; PCS for Computer Science Series, GS-1550, Jan 88; GS Leader GEG, Jun 98; Equipment Development GEG, Aug 66.

Information for Employees. The standards, and information on their application, are available in the personnel office. The classification of the position may be reviewed and corrected by the agency or the U.S. Office of Personnel Management. Information on classification/job grading appeals, and complaints on exemption from FLSA, is available from the personnel office or the U.S. Office of Personnel Management.

Typed Name and Title of Official Taking Action: James L. Laughlin, Colonel, GS, Chief of Staff

Signature:  Date: BLM'02

23. Position Review	Initials	Date								
a. Employee (optional)										
b. Supervisor										
c. Classifier										

24. Remarks: Position is at the full performance level. BUS: 8888 *1450/1451/1452/1453 This is a Critical Acquisition Position

25. Description of Major Duties and Responsibilities (See Attached)

INTRODUCTION

Position is located in the Immersive Technologies Business Area of the Simulation, Training and Instrumentation Command (STRICOM), Directorate for Engineering and Technology Development (DETD). STRICOM is a major subordinate command of the U.S. Army Materiel Command (AMC). The mission of STRICOM is to provide centralized management and direction for all research, development, acquisition and fielding of army training devices; simulations and simulators; major test instrumentation; targets and threat simulators; and distributed interactive simulations. The Commander centrally directs, coordinates and supports materiel development, acquisition and sustainment activities through the functional/matrix organization and four project managers.

Incumbent of this position serves as Chief Engineer for the STRICOM Immersive Technologies Team (ITT) within the Immersive Technologies Business Area, reporting to the Director, DETD. As Chief Engineer of the STRICOM ITT Team, support is provided to each of the Project Managers that have relevant needs for advanced simulation research expertise within their programs or product lines. The Chief Engineer acts as transition agent for Immersive Technologies and is the Army's Contracting Officer's Technical Representative for the Institute for Creative Technologies (ICT). The STRICOM Immersive Technologies Team mission is to provide staff and systems engineering support to the PM's and the Operations and Support Directorate that transition the technical opportunities from the ICT. Focus is maintained on integrating activities within the business area to promote greater systems interoperability, seamless interplay and product reuse. Position requires coordination with ASAALT, the Commanding General, Deputy to the Commander, STRICOM Project Managers and Directors as well as higher headquarters, other AMC Commands, Training and Doctrine Command (TRADOC), other Army and DoD organizations and private industry.

MAJOR DUTIES

1. Plans, organizes and directs engineering activities for the research and potential acquisition of solutions be investigated by the ICT. Through the application of engineering and program management skills, incumbent is responsible for supporting and assisting STRICOM in defining system acquisition strategies and executing these strategies, ensuring that technical performance objectives are being satisfied within allocated cost and schedule. Develops and oversees the implementation of long range research, acquisition and life-cycle initiatives in conjunction with the STRICOM team to insure all Simulation products and processes realistically, accurately and successfully meet the operational intent required by the relevant PM or Directorate. In executing these acquisition strategies, the incumbent is responsible for: 1) leading and directing team activities to resolve systemic technical issues of a complex nature; 2) identifying risks and developing risk mitigation plans to manage these risks; 3) leading and coordinating research, design and technical reviews; 4) coordinating the preparation and review of research efforts; 5) managing the team in resolution of engineering problems and making final recommendations to the PM on controversial technical issues cutting across organizational and product lines; 6) coordinating the evaluation of the product quality by applying scientific and engineering knowledge to analyze reports, test results and operational issues, and directing team corrective actions as necessary; and 7) overall orchestrating the activities of engineering team members in the research, development, test, production and fielded support of products managed under the Immersive Business Area.

25%

2. Ensures advanced simulation research related activities are in consonance with STRICOM's mission and goals. The incumbent serves as the Army's Technical Representative and the Command's technical expert within the Immersive Technology domain, advising the PMs and Directors with assessments of new capabilities and engineering practices that incorporate leading edge simulation research into systems development, while advising on the efficacy of adopting these technologies into established and emerging programs while considering life-cycle cost and schedule implications. Participates in promoting a culture of and seeking opportunities for horizontal integration and systems interoperability, both within STRICOM and within the larger Army Team. Collaborates with the other Chief Engineers and DETD Business Area Deputy Directors, to include remaining cognizant of emerging technologies in the area of Immersive Research, helping to shape the investment strategy of the Simulation Technology Business Area relevant to the incumbent's product line concerns.

Supports initiatives to reduce stovepipe applications or system specific implementations within the domain and seeks opportunities for multi-application platforms/systems in an interoperable environment of multiple systems, to include considerations beyond training applications such as simulation-based acquisition and embedded simulation. Coordinates with other AMC and Department of Defense (DOD) organizations on applications, and makes recommendations to the Command on simulation initiatives that STRICOM should pursue.

25%

3. Serves as technical expert in the Command for the Immersive Technologies Business Area. Represents STRICOM interests at meetings and conferences with representatives of DA and DOD organizations, academia and private industry, demonstrating STRICOM's depth of expertise in the area of simulation research. Collaborates with STRICOM matrix organizations and PMs to ensure the interests of the domain are considered in all aspects of the Command's acquisitions, where applicable.

25%

4. Serves as the Chief Engineer for the Immersive Technologies STRICOM Team. Plans and coordinates the efforts of a team of engineering specialists. Provides technical direction and leadership including setting goals and objectives, planning for professional development, allocating resources for project execution, and developing a team of simulation research experts within STRICOM. Team Leadership responsibilities are itemized in attached checklist.

25%

Performs other duties as assigned.

KNOWLEDGE REQUIRED BY THE POSITION

A. Expertise with regard to the basic technologies and practices employed in the immersive research domain. Specific knowledge required includes demonstrated expertise of the research funding profile of 6.1 Basic Research and 6.2 Advanced Research lines; advanced techniques in graphics, sound, and Artificial Intelligence; and conceptualization techniques. This expertise is necessary to effectively direct STRICOM's efforts to provide quality simulations products that realistically and accurately integrate Army models and simulations with training systems to provide the warfighter with tools to enable optimum mission performance.

B. Broad expertise in multiple engineering disciplines to include systems engineering; software development; system and software testing; quality assurance; reliability and maintainability engineering; configuration management; Information Security/Assurance; and system integration. Extensive knowledge and demonstrated expertise in applying current and evolving engineering technology required to perform market surveys, risk analysis, trade-off studies, and engineering cost estimates.

C. Experience applying DoD materiel acquisition to support life cycle engineering management processes. Specifically, apply the DoD 5000 series of regulations, AMC materiel acquisition practices, the TRADOC requirement generation process, and STRICOM acquisition processes.

D. Demonstrated leadership capabilities of engineering teams to include functional band activities as the lead engineer in teams supporting research and development, acquisition, fielding and lifecycle management initiatives. Experience in interface control of systems integration into the field for training and mission support. Demonstrated capabilities to lead a team of multi-talented engineers to a successful completion of a project. Knowledge and understanding of projects and operations involving joint operations in complex environments and coordination capabilities with industry and multiple commands to successfully field products that meet the needs of all customers.

E. Ability to effectively communicate, both orally and in writing, to a wide range of audiences and address issues relating to the acquisition, fielding and sustainment within the lifecycle support issues relating to STRICOM's Immersive initiatives. Ability to interact well with customers (within and outside STRICOM), management, and team members in order to insure the soldier in the field receives the best possible product for sustainment of mission capability.

Classification Factors

Factor 1. Assignment Characteristics

a. Incumbent is the focal point for managing and directing the efforts of multiple engineering project teams in support of the research, acquisition, fielding and life cycle support of simulation products, processes and services. Incumbent serves as an expert technical advisor providing leadership for the engineering concept formulation and development of large and complex simulations systems. Advises project teams in evaluating advanced proposals to satisfy program objectives and in resolving critical and severe problems. Reviews and assesses overall progress of assigned efforts and coordinates the resolution of complex technical issues. Incumbent effectively estimates and coordinates engineering resource requirements to meet the technical objectives of assigned research and acquisition programs; these resource requirements usually span an extensive variety of specialty engineering skills (software, testing, facility, visual, safety, etc) needed to ensure successful fielding and life-cycle considerations of the simulation research products. Incumbent works closely with STRICOM Project Managers (PMs), other Army PMs, as well as STRICOM's Directorate for Operations and Support to identify engineering activities to be performed in execution of projects that can be in different life cycle phases involving research, development, production and/or operational efforts. Incumbent is also responsible for leading team members towards ensuring interoperability of assigned systems with other modeling and simulation systems being developed by STRICOM under other PMs and business areas. Incumbent leads engineering teams towards effective horizontal integration and information sharing to leverage commonalities of systems within

own business area as well as across directorate business areas. Incumbent also provides critical input to the overall STRICOM technology development strategic plan, and effectively coordinates with directorate technology program Chief Engineers to facilitate technology transition into current or future simulation systems.

b. Incumbent maintains cognizance of new and emerging modeling and simulation technologies relevant to training systems. Incumbent must frequently develop new and innovative approaches to solve a variety of technical problems on assigned programs coordinating effectively with government and contractor personnel. As a recognized authority in relevant technology areas, incumbent must coordinate and direct efforts of industry, academia and DoD partners to address highly complex and difficult technical issues; ensuring advanced simulation solutions. Incumbent advises engineers, scientists, logisticians, analysts, contract specialists and private industry contractors on related state-of-the-art technologies and standards.

c. The success of the simulation research is critical to achieving overall Army Transformation objectives, especially through current transformation planning efforts. Interoperability between Models and Simulations in support of training objectives is a key technology area that is broadly applied across Army and DoD simulation and training systems. Successful accomplishment of research objectives in this area would result in significant reductions in cost and turn-around time for training solutions.

Factor 2. Level of Responsibility

a. Incumbent works under general supervision of the Director for Engineering and Technology Development. Incumbent exercises broad authority for technical decisions, planning and administering assigned responsibilities and managing resources. Responsible for planning, organizing, coordinating and reviewing engineering activities performed by team members on assigned projects. Works with team members and project directors to establish project objectives and resource requirements. Identifies and allocates resources to ensure project requirements and objectives are met. Incumbent decides on courses of action based on expertise and technical input. Maximizes resources by developing collaborations among internal and external groups. Responsible for facilitating horizontal integration within the Simulation Business Area, as well as across the other directorate business areas to maximize investment efficiency and reuse opportunities, and to reduce technical and programmatic risk. Incumbent is delegated the authority to evaluate future technology trends as they apply to Simulation systems, and to influence the investment strategies of applicable directorate technology programs. Recommendations made by the incumbent are accepted as authoritative. Work is reviewed in terms of overall effectiveness and attainment of objectives.

b. Incumbent is a Chief Engineer leading engineers, scientists and related support personnel who are mostly in grades GS-12 and GS-13 and may reflect complex skill mix of engineering talents provided from other Government agencies and support service contractor labor pools. Plans work to be accomplished, sets and adjusts priorities, establishes milestones and schedules for completion of work. Assigns work, based on priorities and considering the difficulty and requirements of the assignment and the capabilities of team members. In cooperation with Director for Engineering and Technology Development, develops team member performance standards and makes formal and informal appraisal of work. Identifies developmental and training needs of team members.

c. Contacts are with high level Army and STRICOM management, private industry contractors, academia, DoD and other professionals and experts in Simulation Community who are involved in generating requirements for and developing solutions to improve interoperability between the M&S Domains. Contacts are also with groups that can influence and guide the technology development efforts in the applicable technology areas. The purpose of contacts is to coordinate work efforts; resolve controversial questions and issues related to projects; monitor project progress; and negotiate for research, design, test and other engineering activities and resources. Contacts are also for purposes of partnering with industry, academia and DoD to effectively and efficiently address key challenges in the Simulation Domains.

Acquisition Corps Membership:

This is a Critical Acquisition Position. Unless specifically waived by the appropriate Army official, (i.e., the Director of Acquisition Career Management, the Army Acquisition Executive, or the Secretary of the Army) or the employee is "grandfathered" under 10 U.S.C. 1736 (c) (1), the following are statutorily mandated requirements (Reference: 10 U.S.C. 1733 and 1737):

- (1) Selectee must be a member of an Acquisition Corps at the time of selection or possess a waiver.
- (2) Selectee must execute, as a condition of appointment, a written agreement to remain in Federal service in the position for at least three years. In signing such agreement, the employee does not forfeit any employment rights, nor does such agreement alter any other terms or conditions of employment.

CRITICAL ACQUISITION POSITION AMENDMENT TO PD# NL 12560

"This is a Critical Acquisition Position. Unless specifically waived by the appropriate Army official, the following are statutory requirements (Reference: 10 U.S.C. 1733 - 1737):

- Selectee must be qualified for Acquisition Corps membership at the time of selection or possess a waiver.

- Selectee must execute, as a condition of appointment, a written agreement to remain in federal service in this position for at least 3 years. In signing such an agreement, the employee does not forfeit any employment rights, nor does such an agreement alter any other terms or conditions of employment."