

POSITION DESCRIPTION (Please Read Instructions on the Back)

2. Reason for Submission <input checked="" type="checkbox"/> Redescription <input type="checkbox"/> Reestablishment <input type="checkbox"/> New <input type="checkbox"/> Other				3. Service <input type="checkbox"/> Hdqtrs. <input checked="" type="checkbox"/> Field		4. Employing Office Location Orlando, FL		5. Duty Station Orlando, FL		1. Agency Position No. NLY9805	
6. Explanation (Show any positions replaced) PLACES NL02016001 DUE TO REALIGNMENT EFFECTIVE 06/25/95				7. Fair Labor Standards Act <input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Nonexempt		8. Financial Statements Required <input type="checkbox"/> Executive Personnel Financial Disclosure <input checked="" type="checkbox"/> Employment and Financial Interests		9. Subject to IA Action <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		13. Competitive Level Code 15-AB/15-BA	
10. Position Status <input checked="" type="checkbox"/> Competitive <input type="checkbox"/> Excepted (Specify in Remarks) SES (Gen.) <input type="checkbox"/> SES (CR)				11. Position Is: <input type="checkbox"/> Supervisory <input checked="" type="checkbox"/> Managerial <input type="checkbox"/> Neither		12. Sensitivity <input type="checkbox"/> 1- Non-Sensitive <input type="checkbox"/> 3- Critical Sensitive <input checked="" type="checkbox"/> 2- Noncritical Sensitive <input type="checkbox"/> 4- Special Sensitive		14. Agency Use			

15. Classified/Graded by	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	COMPUTER/ELECTRONICS ENGINEER*	GS	854/855	15	Ⓟ	9/29/95
e. Recommended by Supervisor or Initiating Office	*INTERDISCIPLINARY					

16. Organizational Title of Position (if different from official title)		17. Name of Employee (if vacant, specify)	
18. Department, Agency, or Establishment DEPARTMENT OF THE ARMY (DA)		c. Third Subdivision DIR FOR RESEARCH & ENGINEERING MGMT (E)	
a. First Subdivision US ARMY MATERIEL COMMAND (AMC)		d. Fourth Subdivision	
b. Second Subdivision SIM, TRNG & INST COMMAND (STRICOM)		e. Fifth Subdivision	

19. Employee Review—This is an accurate statement of the major duties and responsibilities of my position.

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 violation of such statutes or their implementing regulations.

a. Typed Name and Title of Immediate Supervisor WALTER S. CHAMBERS, DIR, RESEARCH & ENG MGMT		b. Typed Name and Title of Higher-Level Supervisor or Manager (optional)	
Signature <i>Walter S. Chambers</i>	Date 9/29/95	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 conformance 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 US OPM PCS, GS-854 COMPUTER ENGR, 1/88, GS-855, ELECTRONICS ENGR, 2/71, GRADE EVALUATION GUIDE FOR NONSUPV PROF ENGR, 6/71.	
Typed Name and Title of Official Taking Action JAMES M. SKURKA, DEPUTY TO THE COMMANDER		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.	
Signature <i>James M. Skurka</i>	Date 9/29/95		

23. Position Review	INITIALS	DATE								
a. Employee (optional)										
b. Supervisor										
c. Classifier										

Remarks

ARMY ACQUISITION EXECUTIVE (AAE) HAS IDENTIFIED THIS POSITION TO BE AN ARMY ACQUISITION CORPS (AAC) CRITICAL POSITION. ANY EMPLOYEE PLACED IN THIS POSITION MUST SIGN A MOBILITY AGREEMENT AND OTHERWISE BE ELIGIBLE FOR AAC MEMBERSHIP. POSITION IS AT THE FULL PERFORMANCE LEVEL.

BUS: 8888

INTRODUCTION

Position is located in the Directorate for Research and Engineering Management of Simulation, Training and Instrumentation Command (STRICOM), a major subordinate command of US Army Materiel Command (AMC). The mission of STRICOM is to provide centralized management and direction for research, development, acquisition and fielding of Army training devices, simulations and simulators; instrumentation, targets and threat simulation; and Distributed Interactive Simulation (DIS). The Commander centrally directs, coordinates and supports the materiel development, acquisition and sustainment activities through the matrix organization and four Project Managers. Directorate is responsible for establishing and implementing engineering and research policies, processes and procedures; managing and executing the Science and Technology Program; managing and establishing program and technical performance baselines for each project to assure timely deliveries of effective training devices, simulators and instrumentation systems at an affordable cost. The research, technology and engineering functions cover the totality of technical responsibility in the simulation, instrumentation and training areas. Accomplishment of these responsibilities requires interface with senior officials in Headquarters, Department of the Army (HQDA), Training and Doctrine Command (TRADOC), the Army Materiel Command, other Major Subordinate Commands (MSCs), Army Program Executive Offices (PEOs), Advanced Research Project Agency (ARPA), Defense Modeling and Simulation Office (DMSO), and other services and agencies.

This position is central to the technical soundness, integration and future direction of the Army simulation and instrumentation programs. Incumbent serves as the senior scientist to the Director. Plans, organizes and directs the technical aspects of a broad range of research and development efforts related to Army, multi-service and international goals associated with Army modeling and simulation (M&S) and instrumentation initiatives. The incumbent is also responsible to oversee the entire life cycle software engineering (LCSE) effort at STRICOM to assure that it is planned, organized and implemented.

MAJOR DUTIES

1. SCIENCE AND TECHNOLOGY PROGRAM DIRECTION

25%

Promotes, plans, manages and directs the Science and Technology (S&T) program for the Command. Develops and updates the long range technology program plan for modeling and simulation and instrumentation research and makes proposal and budget inputs into S&T program sponsors. Manages Army and DOD technology programs tasked to Directorate to include but not limited to,

Technology Base Program, Small Business Innovation Research, Independent Research and Development, Independent Research and Development, Advanced Concepts and Technology II, Historically Black Colleges and Universities Consortium, Cooperative Research and Development Agreements, Advance Systems Concepts Office, Munitions Cases, Data Exchange Agreements and Joint Technical Coordinating Group. Maintains surveillance over program goals and objectives and continually appraises program progress and accomplishment. Through Division Chiefs directs the technical and programmatic efforts of military and civilian personnel assigned to the Directorate. Evaluates the technical quality of accomplishments, applying scientific and/or engineering knowledge to analyze technical reports, test results and operational reports. Coordinates technology initiatives with STRICOM Program Managers, (PMs), Army Research Laboratory (ARL), MSCs , ARPA, DMSO and other services. Supports TRADOC understanding of technology advances as potential solutions to battlefield deficiencies and in the preparation of requirements. Directs the preparation of information briefings on Science and Technology program and ensures dissemination of relevant information to higher headquarters. Establishes a training program including technical knowledge sharing for all engineering personnel to assure a highly qualified technical workforce.

2. LIFE CYCLE SOFTWARE ENGINEERING 25%

Serves as the focal point within STRICOM for computer resource management, software development and life cycle support of simulations, simulators, training systems and instrumentation. Establishes plans, operating policies, processes, and procedures to assure effective and successful accomplishment of life cycle software engineering. Coordinates the work of various organizational elements to ensure the effort being performed is consistent with established processes, procedures and policies. Represents STRICOM at software engineering meetings and conferences with representatives of AMC, other DA and DOD organizations and agencies, and with academia and industry.

3. RESOURCE MANAGEMENT 25%

Responsible to manage the funds, workload requirements and facilities for S&T Program and LCSE. Executes sound managerial principles and practices to assure effective accomplishment of mission. Participate with the Director for Resources Management, Director for Management, Director for Logistics and PMs to define LCSE funding requirements from concept formulation through post deployment support and defends budget requirements. Coordinates S&T funding with HQDA through the S&T Objective process.

4. ORGANIZATIONAL REPRESENTATION/LIAISON 25%

Maintains high level contacts with key military, civilian and industrial officials for planning and coordinating all phases of

research and development. Develops and maintains management interfaces NAWC-TSD research and development support base and with other sources of research and development (R&D). Brings together information from the Army centers, other government R&D organizations, industrial development, and international sources in developing technology investment strategies. Serves as the STRICOM Principle Member to the Joint Technical Coordinating Group-Training Systems and Devices.

Performs other duties as assigned.

FACTOR 1: KNOWLEDGE REQUIRED BY THE POSITION

Knowledge of the development and application of advanced simulation technology and software engineering to M&S problems, principles and practices.

Knowledge of R&D within the defense industry with regard to modeling and simulation systems, threat simulation and training device technology, and other highly complex weapon systems.

Knowledge of software requirements analysis and design methodologies, software metrics, software reuse, software documentation, object-oriented software methodologies and systems, validation, verification and accreditation (VV&A) criteria, and post deployment software support (PDSS) criteria.

Knowledge of system engineering, operations research analysis, computer software and hardware principles and practices to support the technical analysis of electronic, computer-based military systems or simulation, simulators, training systems and instrumentation applications.

Knowledge of the DIS protocols (IEEE Standard 1278) and DIS standards process.

Knowledge of the Planning, Programming, Budgeting and Execution System (PPBES).

Thorough understanding and working knowledge of the application of Department of Defense (DOD 5000 series) and AMC materiel acquisition process.

Knowledge of DOD M&S policies, including AR 5-11, with the inherent requirements for VV&A of weapon system models to be simulated.

Ability to analyze statistical and performance data to perform market surveys, risk analysis and trade-off studies to support the DOD investment decision making process.

Ability to effectively communicate orally and in writing in order to draft, review and offer comment on various technical papers, directives, regulations, plans, specifications, standards and other documentation of a highly technical nature.

Knowledge and demonstrated ability to plan for and evaluate the cost in both manpower and funding to make recommendations on various M&S studies, analyses and research projects.

FACTOR 2: SUPERVISORY CONTROLS

Incumbent of the position is under the administrative supervision of the Director for Research and Engineering Management (E). The employee, supervisor, STRICOM technical director and the Deputy to the Commander jointly assess where STRICOM's technology and program efforts should be concentrated. Assignments are given in terms of broad overall program objectives. Incumbent must independently decide on courses of action to further enhance STRICOM's modeling, simulation and life cycle software efforts. Work is reviewed in terms of STRICOM's strategic placement and success in the highly competitive modeling and simulation business.

FACTOR 3: GUIDELINES

Guidelines include various DOD, AMC and DA directives and policies regarding the acquisition of simulation systems, software documentation and research and development policies. Guidelines rarely address to specific situations and incumbent is relied upon to interpret and apply available guidelines for use by others.

FACTOR 4: COMPLEXITY

Incumbent must integrate a number of related and unrelated state of the art technologies, theories, information and systems into a cohesive, affordable and practical solution to M&S issues. Throughout the course of daily activities, the incumbent must be capable of exhibiting the tact, diplomacy and flexibility to cope with inevitable crises. Incumbent must be resourceful in the development of novel approaches to resolve a variety of technical problems and issues.

FACTOR 5: SCOPE AND EFFECT

The incumbent must provide the broad and deep technical expertise necessary for executing STRICOM goals and objectives. Integration of cost, time, technology and human resources is required to orchestrate the STRICOM role in DOD M&S advancement. The incumbent maintains detailed knowledge of rapidly evolving technologies within the information technology and M&S domains. The ability to identify emerging trends in these domains has a direct bearing on the successful execution of the STRICOM mission.

FACTOR 6. PERSONAL CONTACTS

Frequent personal contacts and interface are maintained with senior scientists and engineers throughout DOD, other agencies/offices, private industry, and Congressional staffs. Contacts take place in meetings and conferences as well as in unplanned visits. Serves as representative and technical point of contact for M&S activities within STRICOM, the incumbent must possess the necessary human interaction skills to interface in the appropriate manner with a variety of customers, both superior and subordinate.

FACTOR 7. PURPOSE OF CONTACTS

The contacts and interfaces are made on the basis of the incumbent's recognized skill and expertise in a broad range of technical, planning, and managerial issues. Contacts are to resolve controversial issues, defend technical objectives, objectives, negotiate positions, support higher authority objectives in mission attainment, influence and persuade others regarding technical objectives and policies of importance to STRICOM. These contacts will frequently take the form of meetings with peers for the purpose of judging the proper course of action in a complex technical area.

FACTOR 8. PHYSICAL DEMANDS

The work is primarily sedentary. Frequent travel is required (@ 50% of the time).

FACTOR 9. WORK ENVIRONMENT

Work is performed in a typical office setting.