

**Contractor's Progress Report
(Technical and Financial)
CDRL A001**

For: Safe Surgery Trainer

Prime Contract: N00014-14-C-0066

For the Period June 1, 2014 to June 30, 2014

Submitted: 15 July 2014

**Prepared for:
Office of Naval Research (ONR)
875 N. Randolph Street
Arlington, VA 22203-1995**

**Prepared by:
Alion Science and Technology Corporation
5365 Robin Hood Road, Suite 500
Norfolk, VA 23513**

**Contract Program Manager
Curtiss Murphy
(757) 857-5670, Ext. 308
(757) 857-6781 (fax)
cmurphy@alionscience.com**

**Contract Administrator
Kimberly Thompson
(757) 857-5670, Ext. 366
(757) 857- 6781 (fax)
kthompson@alionscience.com**

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 15 JUL 2014		2. REPORT TYPE		3. DATES COVERED 01-06-2014 to 30-06-2014	
4. TITLE AND SUBTITLE Safe Surgery Trainer				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Alion Science and Technology Corporation, 5365 Robin Hood Road, Suite 500, Norfolk, VA, 23513				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 5	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Medical Modeling - Safe Surgery Trainer

This Monthly Progress Report is provided in accordance with the contract CDRL.

1) Contract Period of Performance: 12 March, 2014 to 30 September, 2015

2) Cost (Estimated financials may differ from actual invoice)

a) Total Amount Funded to date:	\$910,256.00
b) Estimated Reporting Period Expenditures	\$63,265.30
c) Estimated Cumulative Expenditure	\$107,669.19
d) Estimated Remaining Funds To Completion	\$802,586.81

3) Progress and Accomplishments During Report Period

- a) Program Management – Ongoing communication and project management with project team and sub-contractors. Ongoing outreach with medical centers (see below).
 - i) Produced the SST Project Management Plan, as part of CMMI-3 process.
 - ii) Ongoing interactions with medical representatives that were interested in or attended the SST StoryJam.
 - (1) StoryJam Participating organizations included: Portsmouth Naval Hospital, Langley AFB Hospital, Fort Eustis McDonald Healthcare, Eastern Virginia Medical School, Maryview Hospital, Mary Immaculate Hospital, and the Children’s Hospital of the King’s Daughters.
 - iii) Continued outreach to the VA, Navy, Army, Airforce, and civilian healthcare organizations to encourage participation and alignment.
- b) Prototype Development – Continued definition of the software tool chain and team development process. Researched character avatars and animations. Laid plans and began development toward initial baseline capability. Defined avatar specs.
 - i) Delivered v1.0 of the Software Requirements Document for SST.
- c) Instructional Design and Healthcare Research – Developed two scenarios. Developed avatar characteristics, perspectives and backstory. Began developing opening scene.
 - i) Developed the Story Jam Report (aka Story Bible) which became the basis for scenario development.
- d) Research Studies – Submitted initial IRB, began drafting measures. Ongoing research participation in the scenario design. Ongoing interaction with organizations willing to participate-in or support research.

4) Work in Progress / Plans for Next Month

- a) Program Management - Continue identifying communication channels, managing contracts, and coordinating with team members and outside participants. Continue involving team members and stakeholders in design, testing, and development.
- b) Prototype Development – Continue developing core architecture. Begin development of game-flow and initial interfaces for conversations. Begin process of defining art style. Continue building core infrastructure, user-interface, and scenario tools.
- c) Instructional Design and Healthcare Research –Select and refine target scenario. Formalize the scenario’s characters, backstory, and teaching points. Formalize the Learning Objectives.
- d) Research Studies – Work to refine IRB. Draft additional measures for studies.

5) Milestones / Deliverables

Name/Description	Date (Target or Actual)	Notes/Status
Project Management Plan	DONE: May 28, 2014	COMPLETE
Reports	15 th of each month	This document
Presentation Materials	As appropriate	ONR Kickoff Brief
Software Requirements Document	Target: Nov 30, 2014	
Scenario Design Document	Target: Sept 30, 2014 & June 30, 2015	
Prototype - Executable	Target: December, 2014, May, 2015, and Aug, 2015	
Prototype - Source	Target: Sept 30, 2015	
Research Data	Target: Sept 30, 2015	
Final Report	Target: Sept 30, 2015	
Milestone – Initiation	DONE: May 31, 2014	COMPLETE
Milestone – Iteration 1	Target: Dec 1, 2014	
Milestone – Iteration 2	Target: Apr 30, 2015	
Milestone – Iteration 3	Target: July 31, 2015	
Milestone – Conclusion	Target: Sept 30, 2015	
Milestone – ONR Kickoff	DONE: Apr 22, 2014	COMPLETE
Milestone – StoryJam	DONE: May 25, 2014	COMPLETE

6) Risks/Issues/Concerns/Problems

- a) None.

7) Travel Accomplished

- a) None this period.

8) Planned Travel

15 July 2014

Unclassified

- a) None this period.

9) Related Activities

- a) Submitted abstract for International Modelling and Simulation in Healthcare (IMSH) 2015 conference, New Orleans, Louisiana, Jan 10-14, 2015.
- b) Presented SST concepts in a brief at the M&S Southwest Modeling and Simulation Conference in Scottsdale, Arizona, Mar 12, 2014.