

<b>SBIR 06.2 PHASE I - AWARD DETAILS</b>	
<b>ORGANIZATION</b>	STTC
<b>TOPIC NUMBER</b>	A06-211
<b>CONTRACT NUMBER</b>	
<b>YEAR OF AWARD</b>	
<b>AWARD START DATE</b>	
<b>AWARD COMPLETION DATE</b>	
<b>PROPOSAL NUMBER</b>	A062-211-0994
<b>TITLE</b>	Reusable Synthetic Tissue for Severe Trauma Training
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<b>COMPANY</b>	dNovus RDI 1355 Central Parkway S., Suite 100 San Antonio TX 78232  Minority Owned: No Veteran Owned: Yes Number of Employees: 165
<b>KEYWORDS</b>	Trauma, medical training, simulated tissue
<b>ABSTRACT</b>	The dNovus team is pleased to present its proposal to address the challenge of developing reusable synthetic tissue for trauma training. We propose a conceptual system and approach called "TraumaSKINS" which will provide a family of appliqué/attachments to existing and future patient simulators and which will have the "look and feel" of real, traumatized tissue. Emotional learning is one of the most salient issues for trauma care training because of the psychological impact of witnessing severe injury. Emotional learning for trauma care is one of the most difficult to train because it requires high fidelity and realism, particularly to medical personnel who already have some experience with trauma. Large numbers of medical training patient simulator "dummies" have been developed and sold for medical training. The TraumaSKINS approach puts emphasis on developing appliqué and attachments to existing and future patient simulator "dummies" in order to minimize cost. Special effects technologies will be used as a basis for development of this family of appliqué and/or attachments which can be made from inexpensive moldable materials that simulate the various types of tissue involved in traumatic injury. The TraumaSKINS developmental approach will use a spiral development process and the Instructional System Design (ISD) methodology.
<b>BENEFITS</b>	The development of TraumaSKINS technology for medical trauma training will have the following benefits • Improved effectiveness of military and civilian medical trauma treatment training. • Improved efficiency of military and civilian medical trauma treatment training. • Reduced emotional stress on medics and other personnel involved in trauma treatment • Improved readiness for military medical medics and other personnel, developed during peacetime when opportunities for battlefield trauma training are rare. • Reduced use or elimination of live tissue for trauma treatment training • Improved medical readiness to deal with natural and man-made disasters including terrorist attack for Homeland Defense and Homeland Security.