

# State of Maryland

## 2013 Bond Bill Fact Sheet

1. Senate LR #      Bill #		House LR #      Bill #		2. Name of Project
lr1426	sb0352	lr2610	hb0580	National Electronics Museum
3. Senate Bill Sponsors				House Bill Sponsors
DeGrange				Beidle
4. Jurisdiction (County or Baltimore City)			5. Requested Amount	
Anne Arundel County			\$200,000	
6. Purpose of Bill				
<p>Authorizing the creation of a State Debt not to exceed \$200,000, the proceeds to be used as a grant to the Board of Directors of the National Electronics Museum, Inc. for the planning, design, construction, repair, renovation, reconstruction, and capital equipping of an exhibit at and exterior of the National Electronics Museum.</p>				
7. Matching Fund				
Requirements:		Type:		
Equal		The matching fund may consist of in kind contributions.		
8. Special Provisions				
<input type="checkbox"/> Historical Easement		<input checked="" type="checkbox"/> Non-Sectarian		
9. Contact Name and Title		Contact Phone	Email Address	
Karen M. Footner		410-433-0354	KMFootner@aol.com	
10. Description and Purpose of Grantee Organization (Limit Length to Visible area)				
<p>National Electronics Museum (NEM) is a 501(c)(3) museum that promotes the study of science and engineering using the nation's electronic heritage to educate and inspire students and the general public. The museum collects, preserves, exhibits and makes available for research artifacts, documents and publications related to the development of defense and other key electronics systems and the commercial products derived from them. Visitors enjoy 12 galleries on radar, radio, electronic warfare, and infrared sensing and sonar. They learn about the history of defense systems and space electronics, see cutting edge technology, and experience the wonders of electronics and magnetism. They gain an appreciation of the evolutionary milestones in electronics that led to the sophisticated products in use today as the museum honors the achievements of the pioneers who made these advances possible. See <a href="http://www.nationalelectronicmuseum.org">www.nationalelectronicmuseum.org</a>.</p>				

**11. Description and Purpose of Project** (Limit Length to Visible area)

Satellites: Transforming Our Lives will tell the complete story of satellite communications, space navigation, remote sensing and strategic surveillance, and weather satellites. Satellites developed for military purposes are the basis of the popular products that have transformed our daily lives. Computers, cell phones, iPods, credit card processing, GPS, household appliances and more are derived directly from satellite and space research. Glimpses of the future include new systems to reach space, tele-reach systems to provide healthcare, and solar power satellites to provide clean energy. A website/booklet will support classroom studies. NEM, located between Baltimore and Washington, with its strong ties to both the industry and to the government-based space industry, is a strategic hub, unique on the East Coast. The exhibition will 1) bring Maryland's aerospace industry the recognition it merits; 2) support STEM education by bringing the State's aerospace professionals and STEM educators to the museum to develop programming; and 3) inform, attract and promote employment in Maryland's aerospace industry. In addition, NEM will improve its building exterior with new signage, lighting and other features to raise its physical visibility, landmark the site and attract passing traffic on Nursery Road, a busy commercial strip.

*Round all amounts to the nearest \$1,000. The totals in Items 12 (Estimated Capital Costs) and 13 (Proposed Funding Sources) must match. The proposed funding sources must not include the value of real property unless an equivalent value is shown under Estimated Capital Costs.*

**12. Estimated Capital Costs**

<b>Acquisition</b>	0
<b>Design</b>	\$45,000
<b>Construction</b>	\$400,000
<b>Equipment</b>	\$105,000
<b>Total</b>	<b>\$550,000</b>

**13. Proposed Funding Sources – (List all funding sources and amounts.)**

Source	Amount
Global SATCOM Tech., David Lee, President & CEO	\$50,000
John Puente (Retired Chr, Hughes Network Systems)	\$50,000
International Electrical and Electronics Engineers	\$15,000
Mary Ann Elliott	\$5,000
Miscellaneous small contributions	\$10,000
BGE	\$40,000
Clear Channel	\$30,000
Hughes Network Systems	\$50,000
Inmarsat	\$50,000
Arianespace	\$50,000
State Bond Bill	\$200,000
<b>Total</b>	<b>\$550,000</b>

14. Project Schedule (Enter a date or one of the following in each box. N/A, TBD or Complete)			
Begin Design	Complete Design	Begin Construction	Complete Construction
2/2013; 3/2013	3/2013; 6/2013	9/2013; 10/2013	11/2013;5/2014
15. Total Private Funds and Pledges Raised		16. Current Number of People Served Annually at Project Site	17. Number of People to be Served Annually After the Project is Complete
\$175,000		75,000	150,000
18. Other State Capital Grants to Recipients in Past 15 Years			
Legislative Session	Amount	Purpose	
none			
19. Legal Name and Address of Grantee		Project Address (If Different)	
National Electronics Museum 1745 West Nursery Road Linthicum, MD 21090			
20. Legislative District in Which Project is Located	32 - Northwestern Anne Arundel County		
21. Legal Status of Grantee (Please Check one)			
Local Govt.	For Profit	Non Profit	Federal
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Grantee Legal Representative		23. If Match Includes Real Property:	
Name:	Ben Roca, Esq.	Has An Appraisal Been Done?	Yes/No
Phone:	301-483-0689		no
Address:		If Yes, List Appraisal Dates and Value	
7651 Midtown Road Fulton, MD 20759			

<b>24. Impact of Project on Staffing and Operating Cost at Project Site</b>			
<b>Current # of Employees</b>	<b>Projected # of Employees</b>	<b>Current Operating Budget</b>	<b>Projected Operating Budget</b>
5	7	\$500,000	\$1,000,000
<b>25. Ownership of Property (Info Requested by Treasurer's Office for bond issuance purposes)</b>			
<b>A. Will the grantee own or lease (pick one) the property to be improved?</b>			lease
<b>B. If owned, does the grantee plan to sell within 15 years?</b>			
<b>C. Does the grantee intend to lease any portion of the property to others?</b>			no
<b>D. If property is owned by grantee and any space is to be leased, provide the following:</b>			
<b>Lessee</b>	<b>Terms of Lease</b>	<b>Cost Covered by Lease</b>	<b>Square Footage Leased</b>
<b>E. If property is leased by grantee – Provide the following:</b>			
<b>Name of Leaser</b>	<b>Length of Lease</b>	<b>Options to Renew</b>	
Northrup Grumman	15	yes	
<b>26. Building Square Footage:</b>			
<b>Current Space GSF</b>	22,000		
<b>Space to Be Renovated GSF</b>	22,000		
<b>New GSF</b>	1300		
<b>27. Year of Construction of Any Structures Proposed for Renovation, Restoration or Conversion</b>		1962	

## 28. Comments: (Limit Length to Visible area)

### Budgeting and Dates of Work

It is not possible to fit in separate costs for both projects:

Building Improvements: Design: \$10,000; Construction: \$40,000; Total: \$50,000

Satellite Exhibit: Design: \$35,000; Construction \$360,000; Equipment: \$105,000; Total: \$500,000

Construction Dates: Dates for both projects are together. The building improvement dates are first; the exhibit dates appear second.

### Exhibition Curators

Aerospace industry professionals have formed a working task force to plan the exhibit with NEM. Chair of the Satellite Gallery Task Force is Dr. Joseph N. Pelton, emeritus Director of the Space and Advanced Communications Research Institute (SACRI) at George Washington University, founder of the Society of Satellite Professionals International and the Arthur C. Clarke Foundation.

Other task force members include: Denis Curtin, Former COO, XTAR; Ramesh Gupta, Satellite Consultant; Ellen Hoff, President, W. L. Pritchard Corp.; Ed Martin, Former COMSAT Executive; Maury Mechanick, Esq., Counsel, White & Case LLP; Michael Simons, Executive Director, NEM.

Senior representatives of the satellite industry are close advisors to the task force, including Pradman Kaul, Chairman/CEO, Hughes Network Systems; David Lee, President; CEO, Global SATCOM Technology, Inc.; and Chris Stott, Chairman, ManSat.

Intelsat, Lockheed Martin, Smithsonian National Air & Space Museum, Global SATCOM, and COMARA have made commitments of key artifacts, models, and interactive media display.

Exhibition content features the four cornerstones of contemporary satellite usage:

1. Telecommunications. The world-wide telecommunications infrastructure links every country in the world with high-quality voice, data and video services via the global internet. More than 15,000 television channels bring news, sports and entertainment to peoples around the world.
2. Remote sensing, weather and earth observation. Satellites provide information for detecting oil and mineral sources and monitoring pollution of the earth and seas, and diseased plants and forests. These satellites now support urban planning, bridge and other types of construction projects, archeology, flood control, disaster recovery (i.e. the Haiti earthquake and the Indian Ocean tsunami), and various geological applications including fault detection and monitoring.
3. Navigation & GPS. Satellites developed for military purposes such as targeting missiles have now shifted to predominantly civilian applications. Satellites are used for monitoring airplane flights, map making, GPS-enabled cars, truck and bus routing systems, ship navigation, and security verification systems.
4. Military Reconnaissance and Surveillance. War has forever changed with satellites allowing for new military communications, navigation, mapping, satellite tracking, anti-satellite weapons, ballistic missile defense, imagery intelligence, signals intelligence, wide area/ocean surveillance, and missile warnings.