

PHED Committee #2  
April 11, 2016

**MEMORANDUM**

April 7, 2016

TO: Planning, Housing, and Economic Development Committee

FROM: Jacob Sesker, Senior Legislative Analyst 

SUBJECT: Briefing—National Cybersecurity Center of Excellence

The following individuals are expected to attend this briefing: Lily Qi, Assistant Chief Administrative Officer; John Korpela, Department of Economic Development; and Brian Barrios, MITRE. At the time this packet was published, presentation materials had not been received. They will be circulated as an addendum when they become available.

A ribbon cutting ceremony for the new 60,000 square foot National Cybersecurity Center of Excellence (NCCoE) occurred on February 8, 2016. The NCCoE partnership between the National Institute of Standards and Technology, the State of Maryland, and Montgomery County will establish a “pre-competitive” environment for the sector, creating a space in which market needs can be identified, discussed, modeled, and ultimately addressed using solutions that have been tested and refined under controlled circumstances.

**ADDENDUM**  
PHED Committee #2  
April 11, 2016

**MEMORANDUM**

April 8, 2016

TO: Planning, Housing, and Economic Development Committee *JS*

FROM: Jacob Sesker, Senior Legislative Analyst

SUBJECT: Briefing—National Cybersecurity Center of Excellence

Attached at © 1-8 is a presentation providing an update on the National Cybersecurity Center for Excellence and the Partnership Intermediary Agreement between NIST, the State of Maryland, and Montgomery County. Attached at © 9-14 is a presentation by MITRE, the contractor/operator of the NCCoE and several other Federally Funded Research and Development Centers. Attached at © 15-22 is a memorandum from Orion Ventures providing a more detailed update regarding NCCoE activities to date, partner companies, and relevant excerpts from the Partnership Intermediary Agreement. Finally, attached at © 23 is a spreadsheet showing the current locations of the tenants of the William Hanna Innovation Center and the costs to the County of providing those tenants with a “soft landing” in other incubators or in privately held lab and/or office space.

**National Cybersecurity Center of  
Excellence (NCCoE) PIA Update –  
April 11, 2016**



# Overview of the NCCoE PIA

- The NCCoE PIA was signed in February 2014 between Montgomery County, the State of Maryland and NIST
- NCCoE is the only FFRDC dedicated to commercial cybersecurity in the nation
- All three partners contributed to renovating a facility and work jointly on programming, communication and outreach

# Objectives of NCCoE PIA

- The NCCoE is **dedicated to furthering innovation** through the rapid identification, integration and adoption of practical cybersecurity solutions.
- NCCoE will be a **technology transfer hub for cyber solutions** derived from government and private sector for specific industry sectors, such as energy, financial services, telecommunications, transportation, and health, and
- A **key location for major research and development in cybersecurity** as it applies to these and other key sectors of the U.S. economy.

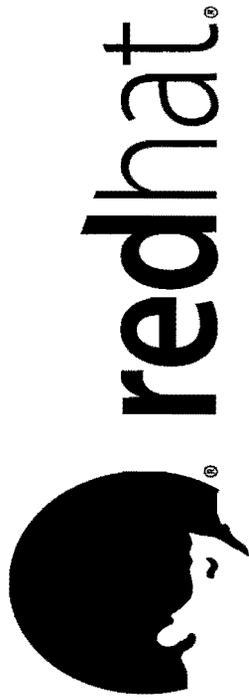
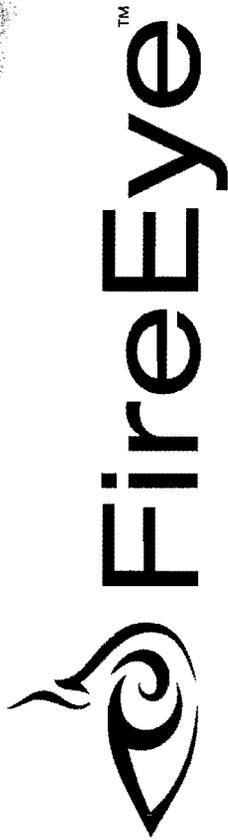
# Key NCCoE PIA Milestones –FY16

- **First Practice Guide released on “Security Electronic Health Records on Mobile Devices” – August 2015**
- Second Practice Guide released on how organizations can improve their approach to data security – October 2015
- **NCCoE moved into WHIC in December 2015**
- Dedication Ceremony – February, 2016
- **NYPA is first utility to adopt Practice Guide – Feb. 2016**
- Joint RSA presentations and activities – March, 2106

# Ongoing NCCoE Activities

- Nine Use Cases in five different industry sectors – Retail, Finance, Healthcare, Energy and Transportation
- Eight Building Block activities in critical areas including data integrity and mobile device security
- **Twenty-three company NCEP Partners**
- **Twenty –six additional** project specific technology company partners

# Sample of NCEP Partners



# Speaker Series

- Coordinated through the Tech Council of Maryland
- Webcast: **Tackling a Critical Health IT Security Challenge** - Securing Electronic Health Records on Mobile Devices
- **Cybersecurity in Retail:** Trends and Challenges with Point of Sale and Payment Technologies
- The National Cybersecurity Center of Excellence (NCCoE) **Dedication Ceremony and Discussion**
- Lunch and Webcast Workshop - **Protecting Consumer Data:** Securing Payment and Transaction Information
- **Cyber and STEM Careers** - Building a Workforce Pipeline, Kathryn P. Hire (CAPTAIN, U.S. NAVY) NASA ASTRONAUT



# NCCoE PIA Next Steps

- Increase regional/national awareness, branding, marketing and outreach
- Increase ease for local/regional companies to engage
- Develop incentives and outreach plan to attract and retain NCCoE company partners
- Build partnerships and programming to develop commercial cybersecurity ecosystem



# MITRE and NCCoE

**Brian Barrios**

**Portfolio Director and Program Manager**

**National Cybersecurity FFRDC**

**MITRE**

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# Established to Serve the Public Interest



established  
**1958**

**not-for-profit**

**conflict-free**  
environment

science &  
technology

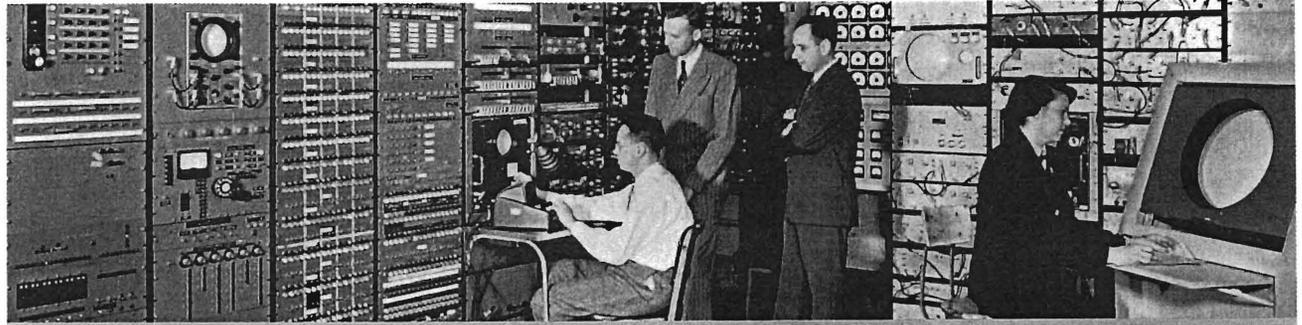
**Part of the ecosystem of federal research centers**

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**MITRE**

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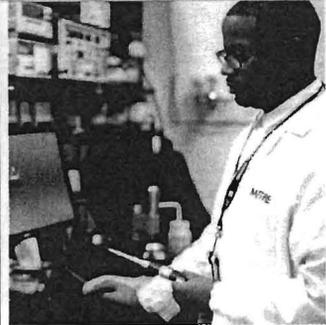
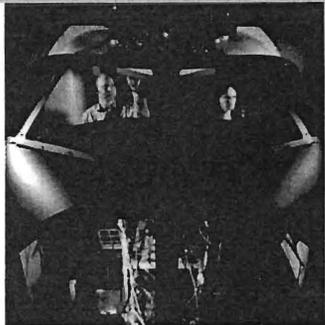
# A Long and Distinguished History



> 1958

Spirit of innovation and a deep understanding of systems engineering

Present >



11

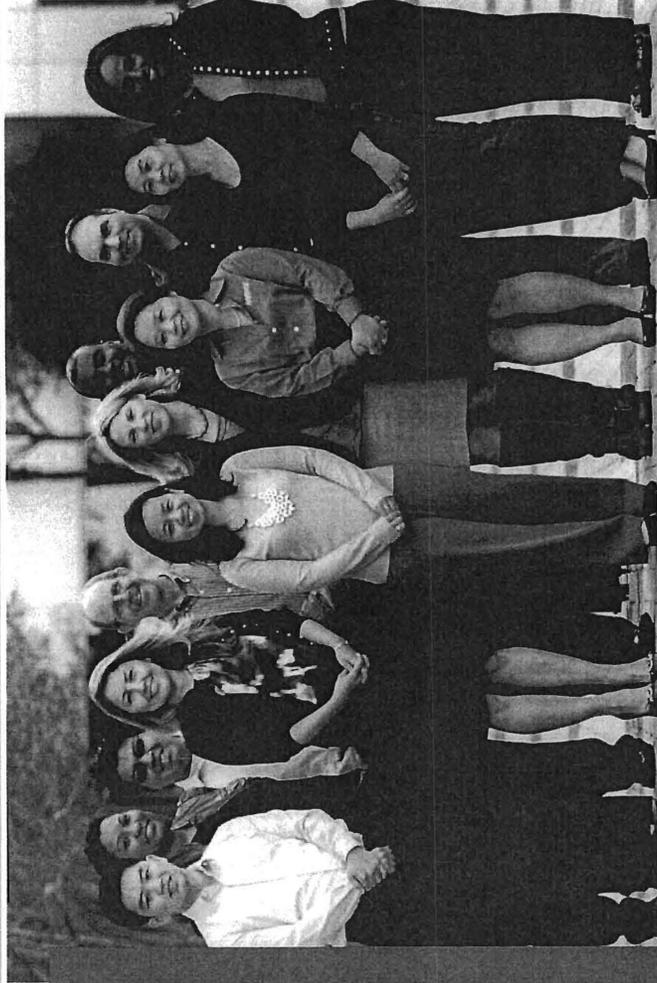
# Today We Operate Seven FFRDCs

<p><b>Our sponsors benefit from our breadth of experience</b></p>		<p>CMS Alliance to Modernize Healthcare</p>
<p>National Security Engineering Center</p>		<p>Center for Enterprise Modernization</p>
<p>Center for Advanced Aviation System Development</p>		<p>Judiciary Engineering and Modernization Center</p>
<p>Homeland Security Systems Engineering and Development Institute</p>		<p>National Cybersecurity FFRDC</p>

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# Our Employees



**7,300**  
employees

**67%**  
advanced  
degrees

**25**  
average years  
experience

**12**  
years average  
tenure

Our employees have a passion for public service

**MITRE**

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# Questions





MEMORANDUM

TO: LILLY QI  
OFFICE OF THE COUNTY EXECUTIVE  
MONTGOMERY COUNTY

SALLY STERNBACH  
DED, MONTGOMERY COUNTY

FROM: MIKE KNAPP  
ORION VENTURES

DATE: 7 APRIL 2016

RE: NCCOE PIA UPDATE

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Overview

In February 2014, Montgomery County entered into a Partnership Intermediary Agreement (PIA) with the Maryland Dept. of Commerce (DOC) and the National Institute of Standards and Technology (NIST) regarding the National Cybersecurity Center of Excellence (NCCoE). The NCCoE is dedicated to furthering innovation through the rapid identification, integration and adoption of practical cybersecurity solutions. The benefit to Montgomery County is that the NCCoE is located in Rockville and can serve as a hub for the County's efforts to nurture, attract and retain companies in the growing commercial cybersecurity sector. The key excerpts of this agreement are attached to this document. **The NCCoE is the only Federally-Funded Research and Development Center in the United States dedicated to commercial cybersecurity activities.**

During past two years there have been a number of efforts underway to get the NCCoE established and functioning. The County, State and NIST each contributed \$4.5 million for the renovation of 1700 Great Seneca Highway to house the Center in the William Hanna Innovation Center (WHIC). **As of January 1, 2016 the NCCoE took occupancy and moved and hosted a Dedication and Ribbon Cutting event on February 8, 2016.**

Programmatically, the growth has been explosive. In 2014, there were two Uses Cases and two Building Block projects underway being undertaken with the few NIST staff who were getting the NCCoE up and running. **Late in 2014, MITRE was awarded the contract to manage the FFRDC and in 2015 that number increased to 9 Use Cases in 5 different industry sectors including Retail, Finance, Healthcare, Energy and Transportation.**

In undertaking these Use Cases and Building Block activities, NCCoE has two sets of partners. First, those who provide widely available technologies that can be broadly applicable to nearly any industry (i.e. Cisco, Intel) and those with more subject matter expertise that can be brought

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to bear on specific industries or applications. **At this time the NCCoE has 23 companies that are included in the National Cybersecurity Excellence Partnership (NCEP), or better known as “NCEP Partners,” and an additional 26 companies working on specific projects for which their technology is best suited. A list of these companies is attached.**

Each Use Case results in a Practice Guide that provides companies and organizations within a specific industry sector with a “roadmap” to address significant cybersecurity challenges. This represents a significant investment that companies don’t have to make alone and can provide a huge benefit. In February at the Dedication Ceremony, **the New York Power Authority (NYPA), the largest public utility in the U.S., announced that will be the first utility to undertake a project to adopt the new NIST guide, Identity and Access Management for Electric Utilities, from the center.** This guide maps security characteristics to guidance and best practices from NIST, other standards organizations, and NERC CIP. On a smaller scale, the Montgomery County Police Department has entered the early stages of collaboration with NCCoE to identify and address cybersecurity challenges in law enforcement vehicles. The department has provided a police cruiser from its current fleet, which will be housed in one of the center’s new industrial control system labs. This new collaboration will explore potential cybersecurity challenges facing law enforcement vehicles today and in the future.

The PIA has resulted in five different public events in FY16 including:

**Tuesday, August 25, 2015 1:00 PM to 2:00 PM (EDT)**  
**Webcast: Tackling a Critical Health IT Security Challenge - Securing Electronic Health Records on Mobile Devices**  
Maryland Department of Commerce

**Thursday, November 19, 2015 | 10:30 AM - 12:00 PM** *The Universities at Shady Grove (USG) University of Maryland*  
**Cybersecurity in Retail: Trends and Challenges with Point of Sale and Payment Technologies**

**Monday, February 8, 2016** NCCoE, 1700 Great Seneca Highway, Rockville, MD  
**The National Cybersecurity Center of Excellence (NCCoE) Dedication Ceremony and Discussion**

**Tuesday, March 22, 2016** NCCoE, 1700 Great Seneca Highway, Rockville, MD  
**Lunch and Webcast Workshop - Protecting Consumer Data: Securing Payment and Transaction Information**

**Tuesday, April 26, 2016 1:00 PM – 3:00 PM** *The Universities at Shady Grove (USG) University of Maryland*  
**Cyber and STEM Careers and Building a Workforce Pipeline, KATHRYN P. (KAY) HIRE (CAPTAIN, U.S. NAVY) NASA ASTRONAUT**



### Next Steps

The PIA is now well positioned to begin to leverage the NCCoE relationship to increase the County and State's role in commercial cybersecurity activities which represents ~\$130 billion industry sector and growing. Efforts are underway to implement technology and investment showcases, additional conference opportunities bringing decision-makers from all industry sectors to the community, and increase the visibility and presence of this new, vitally important national resource.

The PIA is working with Tech Council of Maryland, the Cybersecurity Association of Maryland, Inc., the Chesapeake Regional Tech Council, the Chesapeake Innovation Center, BW Tech and other organizations from across the state to connect emerging companies and technologies, as well as existing federal assets with the efforts underway at the NCCoE to create a vibrant cybersecurity ecosystem for future economic growth.

One significant activity for Montgomery County to consider as the new MCEDC comes on-line is to create a set of programs and incentives that it can use to engage with NCCoE NCEP partners to facilitate their growth and expansion in proximity to the NCCoE. With the transition from the Department of Business and Economic Development at the State and the County's transition to the MCEDC there has not been as much focus on this type of outreach activity.

Given the rapid growth of the NCCoE and its solid foundation in its new facilities, the County and State are well positioned to be strong players in the important growth and expansion of the cybersecurity sector.



**List of NCCoE Partner Companies – April 7, 2016**

Akamai Technologies, Inc.	Cambridge	MA
AlertEnterprise, Inc.	Fremont	CA
AlphaPoint Technology	NYC	NY
Belarc, Inc.	Maynard	MA
CA Technologies	Manhattan	NYC
Cisco	San Jose	CA
CSG Invotas (subsidiary of CSG Systems International, Inc.)	Milpitas	CA
Dragos Security, LLC	??	
FireEye	Milpitas	CA
GMO GlobalSign, Inc. (GMO Internet, Inc.)	Maidstone	UK
Hewlett-Packard Company	PaloAlto	CA
HyTrust, Inc.	Mountain View	CA
ID/DataWeb, Inc.	Vienna	VA
intel	Santa Clara	CA
Intel Federal LLC (subsidiary of Intel Corporation)	Fairfax	VA
Intel Security	Santa Clara	CA
Juniper	Sunnydale	CA
Juniper Networks, Inc.	Herndon	VA
Lookout, Inc.	San Francisco	CA
Microsoft Corporation	Redmond	WA
Mount Airey Group, Inc.	Fairfax	VA
NextLabs, Inc.	San Mateo	CA
OSIsoft, LLC	San Leandro	CA
Palo Alto	Santa Clara	CA
Peniel Solutions, LLC (PSL)	Duluth	GA
Ping Identity Corporation	Denver	CO
Process Improvement Achievers, LLC	Baltimore	MD
Pulse Secure, LLC	San Jose	CA
Puppet Labs, Inc.	Portland	OR
Radiant Logic, Inc.	Sterling	VA
RADiFlow, Ltd.	Mahwah	NJ
Red Hat, Inc.	Raleigh	NC
RedJack, LLC	Silver Spring	MD
RS2 Technologies, LLC	Munster	IN
RSA Security, LLC (a subsidiary of EMC Corporation)	Bedford	MA
Schneider Electric SA	Rueil-Malmaison	France
Secure Channels, Inc.	Irvine	CA
Seimens	Berlin	
Software House dba Sensormatic Electronics LLC	Gaithersburg	MD
Splunk, Inc.	San Francisco	CA
Symantec Corporation	Mountain View	CA



**List of NCCoE Partner**  
**Companies – April 7, 2016**  
**(cont.)**

TDi Technologies, Inc.	Plano	TX
Telos Corporation	Ashburn	VA
Tripwire, Inc.	San Francisco	CA
Vanguard Integrity Professionals, Inc.	Las Vegas	NV
Venafi, Inc.	Salt Lake City	UT
Waratek, Ltd.	Dublin	Ireland
Waterfall Security Solutions, Ltd.	Israel	
XTec, Inc.	Reston	VA



## **PARTNERSHIP INTERMEDIARY AGREEMENT (excerpts)**

BETWEEN  
THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY  
AND  
THE MARYLAND DEPARTMENT OF BUSINESS & ECONOMIC DEVELOPMENT  
AND  
THE MONTGOMERY COUNTY DEPARTMENT OF ECONOMIC DEVELOPMENT  
REGARDING THE  
NATIONAL CYBERSECURITY CENTER OF EXCELLENCE

### **Article 1. Purpose**

This Agreement is entered into in furtherance of the collaboration memorialized in the Memorandum of Understanding between Montgomery County, Maryland and the State of Maryland and the National Institute of Standards and Technology (NIST) dated February 21, 2012 (MOU), which intended to establish the National Cybersecurity Center of Excellence (NCCoE) as a public-private collaboration for accelerating the widespread adoption of integrated cybersecurity tools and technologies.

### **Article 3. Background**

It is envisioned that the NCCoE will serve as a national resource to integrate commercially available technologies to build practical cybersecurity solutions that can be applied to industry sector cyber challenges. In so doing, the NCCoE will create a pre-competitive environment for public and private sector organizations to work together to develop cybersecurity solutions, and create an environment where new cybersecurity technologies and applications can be identified, tested, and refined. Important objectives of the NCCoE include engaging a spectrum of technology and industry partners to accelerate the transfer and availability of solutions to the marketplace, and creating an effective access point for government-developed cybersecurity technologies and applications to be made available for licensing and co-development by the private sector. The Parties anticipate that the NCCoE will leverage federal cybersecurity assets located in Maryland, and increase commercial opportunities that can further economic development objectives.

The Parties contemplate the need to expand the NCCoE facilities as the NCCoE prepares to undertake multiple simultaneous specific industry sector Use Cases and Building Block solution efforts, each of which will involve one or more different teams of collaborators. In addition to participation of industry partners from large information technology sector firms, an important aspect of the NCCoE's activities will be engagement with small business firms as well as institutions of higher learning and educational institutions. The Parties also concur in the particular importance of facilitating the participation of small business firms, including start-ups, in the NCCoE. Such small business firms may not have the resources that allow large business firms, such as many National Cybersecurity Excellence Partnership (NCEP) partners, to co-



locate at NCCoE facilities and/or to otherwise participate along with academic experts and NIST staff. Yet, such participation will be critical to the success of the NCCoE mission.

Accordingly, the Parties recognize the need for expanded facilities operations services to increase the likelihood of success in the conduct of cooperative NCCoE activities with small business firms, institutions of higher learning and educational institutions, as well as with

#### **Article 5. Agreement Activities**

The NCCoE is dedicated to furthering innovation through the rapid identification, integration and adoption of practical cybersecurity solutions. It is contemplated that the NCCoE will evolve into a technology transfer hub for cyber solutions derived from government and private sector tools as they apply to specific sectors of the Nation's infrastructure, such as energy, financial services, telecommunications, transportation, and health, and as a key location for major research and development in cybersecurity as it applies to these and other key sectors of the U.S. economy. It is contemplated that DBED and DED will serve as primary agents, and all Parties will work in active collaboration in generating and facilitating technology transfer of security capabilities and platforms developed through NCCoE programs and projects and other federal entities. Once the FFRDC is established and a contractor is chosen, more specific objectives and metrics will be identified and may be agreed to by the Parties. It is also understood and agreed that DBED and DED will be primarily responsible for efforts to engage with institutions of higher learning, educational institutions, and private sector entities that may desire use of facilities in connection with the NCCoE through direct agreements with such institutions or entities. In these capacities, it is contemplated that the activities of DBED and DED may include active collaboration with the NCCoE for:

- a) developing and maintaining significant interactions with key commercial industry sectors for the identification of cybersecurity needs within those industry sectors where the NCCoE can contribute in accordance with its mission;
- b) facilitating access for small and emerging businesses in order to encourage their participation in the development of use case solutions;
- c) empowering commercial organizations to use the NCCoE as a tool to proactively develop and deploy cybersecurity solutions for specific industry sectors;
- d) fostering a physical environment in which businesses can locate in and around the NCCoE in order to work more closely with the Federal government, but also to work more closely in development of pre-competitive and non-competitive cybersecurity solutions;
- e) supporting the creation and growth of innovative cyber security platforms, mechanisms, and demonstrations developed at the NCCoE, including facilitating the ability of small business firms to co-locate at or locate near the NCCoE through the provision of flexible terms such as below market rent, short-term lease options, and lease options without requirement for personal guarantees;
- f) establishing industry incubators for commercial availability and adoption of, and participation in, NCCoE security platforms, especially by small business firms;



- g) integrating incubator activities into state and local economic development planning;
- h) identifying industry association partners and facilitating meetings between the NCCoE and private sector representatives (including both large and small business firms) to allow for the NCCoE to provide overviews of its mandate and goals and solicit feedback and input from the private sector regarding those elements;
- i) working with key representatives at NIST to develop a communication protocol by which information regarding cybersecurity standards is shared to provide an opportunity for various industry sectors to hear first-hand what is being proposed and interact directly with NCCoE participants in understanding the solution;
- j) coordinating with NIST to identify other Federal agencies that will be relevant to achieve the NCCoE's cybersecurity mission and that will also be beneficial to achieve the economic development objectives of the State and County;
- k) working with NIST, the NCCoE, and private sector companies to identify cybersecurity workforce needs and requirements, and to advance the programmatic development of workforce training and education;
- l) working with high schools, colleges, universities, and the Federal Government to implement appropriate programs to meet the need of these groups;
- m) assisting in developing and implementing strategies to recruit local, state, regional and national organizations for issue solicitation and development; and
- n) promoting the NCCoE's business and physical environment, accomplishments, and participants.

COMPANY NAME	HANNA MONTHLY RENT	HANNA SQ. FT.	NEW MONTHLY RENT	NEW SQ. FT.	RENT INCREASE	SQ. FT. DIFF.	Soft Landing Funds for Rent (x4.5 NMR)	Soft Landing Funds for 50% Build Out Costs	Soft Landing Funds for Moving Expenses	Soft Landing Funds for Incidentals	Total Soft Landing Funds Rec'd by Company	POST SHADY GROVE ADDRESS (as of April 5, 2016)
ACC - RIC	\$1,170.00	510	\$1,563.00	572	\$393.00	62	\$0	\$0	\$360	\$500	\$860.00	155 Gibbs Street, Ste. 425, Rockville, MD 20850
Alper	\$3,630.00	770	\$0.00	0	(\$3,630.00)	(770)	\$0	\$0	\$0	\$0	\$0.00	Partnering w/Fuzbien in private incubator (Parklawn Dr.)
Analyticon	\$385.00	154	\$600.00	200	\$215.00	46	\$2,700	\$0	\$640	\$1,000	\$4,340.00	9605 Medical Center Drive, Ste. #113B, Rockville, MD 20850
Arraystar	\$3,740.00	968	\$6,228.38	2931	\$2,488.38	1963	\$28,028	\$0	\$956	\$1,000	\$29,983.41	9430 Key West Avenue, Ste. 128, Rockville, MD 20850
AscentGene	\$3,630.00	913	\$4,954.58	2530	\$1,324.58	1617	\$22,296	\$0	\$2,912	\$1,000	\$26,207.11	900 Clopper Road, Ste. 120, Gaithersburg, MD
Athas	\$390.00	154	\$0.00	0	(\$390.00)	(154)	\$0	\$0	\$0	\$0	\$0.00	Closed Operations
Bethesda Pharma	\$3,300.00	770	\$0.00	0	(\$3,300.00)	(770)	\$0	\$0	\$0	\$0	\$0.00	Closed Operations
Blue Torch - RIC	\$974.00	375	\$936.00	321	(\$38.00)	(54)	\$0	\$0	\$7,367	\$500	\$7,876.00	Moved to RIC then moved the Kentlands in Gaithersburg
Brain Bio - RIC	\$1,090.00	396	\$1,790.00	716	\$700.00	320	\$0	\$0	\$1,195	\$0	\$1,195.00	Moved to RIC but graduated and in 4,000 sq. ft. space in Gaithers Road.
Capital Biosciences	\$1,418.00	516	\$3,313.50	1692	\$1,895.50	1176	\$14,911	\$0	\$1,050	\$1,000	\$16,960.75	900 Clopper Road, Ste. 120, Gaithersburg, MD
CC Biotech	\$330.00	120	\$1,580.00	470	\$1,250.00	350	\$7,110	\$0	\$6,626	\$1,000	\$14,735.50	12111 Parklawn Drive, Rockville, MD 20852
Cell Path - GIC	\$2,530.00	734	\$2,254.00	541	(\$276.00)	(193)	\$0	\$0	\$1,225	\$500	\$1,725.00	Moved to GIC --just received \$5 million for Cancel Research from NCI
Clarissance	\$320.00	140	\$9,768.75	3000	\$9,448.75	2860	\$43,959	\$250	\$3,327	\$1,000	\$48,535.90	9430 Key West Avenue, Ste. 125, Rockville, MD 20850
Cosmos ID - RIC	\$545.00	234	\$1,616.00	554	\$1,071.00	320	\$0	\$0	\$697	\$500	\$1,197.48	155 Gibbs Street, Ste. 436, Rockville, MD 20850
Epigenomics - GIC	\$1,935.00	836	\$1,323.00	540	(\$612.00)	(296)	\$0	\$0	\$0	\$500	\$500.00	20271 Goldenrod Lane, Ste. 2027, Germantown, MD 20876
Flexispine	\$440.00	195	\$440.00	195	\$0.00	0	\$0	\$0	\$0	\$0	\$0.00	Moved to 212 N. Adams Street, Rockville the closed operations
Fuzbien	\$2,785.00	903	\$1,161.19	450	(\$1,623.81)	(453)	\$5,225	\$0	\$2,516	\$1,000	\$8,741.36	12111 Parklawn Drive, Rockville, MD 20852
GenArrayton	\$2,675.00	885	\$3,075.00	1200	\$400.00	315	\$13,838	\$0	\$3,500	\$1,000	\$18,337.50	9610 Medical Center Drive, Suite 230, Rockville, MD 20850
GeneImmune	\$2,200.00	648	\$4,533.33	1360	\$2,333.33	712	\$20,400	\$0	\$1,475	\$1,000	\$22,874.75	15601 Crabbs Branch Way, Rockville, MD 20855
Genesis S. Solutions - GIC	\$330.00	145	\$0.00	0	(\$330.00)	(145)	\$0	\$0	\$0	\$0	\$0.00	Closed Operations
GenProMarkers	\$3,709.00	924	\$0.00	0	(\$3,709.00)	(924)	\$0	\$0	\$7,616	\$0	\$7,616.00	7305 Bannockburn Ridge Court, Bethesda, MD 20817 (Residence)
Green Gap	\$330.00	140	\$0.00	0	(\$330.00)	(140)	\$0	\$0	\$0	\$1,000	\$1,000.00	13816 North Gate Drive, Silver Spring, MD 20906
Innovative Query	\$355.00	140	\$0.00	0	(\$355.00)	(140)	\$0	\$0	\$0	\$1,000	\$1,000.00	11140 Willowbrook Drive, Potomac, MD 20854
L&J Biosciences	\$3,300.00	770	\$5,916.67	1775	\$2,616.67	1005	\$26,625	\$372	\$2,400	\$1,000	\$30,396.52	19 Firstfield Road, Ste. 100A, Gaithersburg (Alexandria Incubator)
Longhorn	\$3,845.00	1004	\$6,986.67	2096	\$3,141.67	1092	\$31,440	\$0	\$10,557	\$1,000	\$42,997.02	19 Firstfield Road, Ste. 100C, Gaithersburg, MD 20878
MagBio	\$3,885.00	1001	\$7,583.33	6500	\$3,698.33	5499	\$34,125	\$58,794	\$3,800	\$1,000	\$97,718.49	944 Clopper Road Gaithersburg, MD 20878
Medical Tech Partners	\$0.00	0	\$1,762.00	881	\$1,762.00	881	\$7,929	\$0	\$1,582	\$1,000	\$10,511.20	60 Market Street, Suite 201, Gaithersburg, MD 20878
Neodlagnostix	\$7,053.00	1970	\$4,480.00	3200	\$0.00	0	\$20,160	\$26,756	\$17,510	\$1,000	\$65,425.00	9 West Watkins Mill Road, Gaithersburg, MD 20878
Neuralstem - GIC	\$11,520.00	2892	\$8,540.00	2507	(\$2,980.00)	(385)	\$0	\$0	\$24,596	\$500	\$25,095.88	20271 Goldenrod Lane, Ste. 2024, Germantown, MD 20876
Omic	\$330.00	154	\$0.00	0	(\$330.00)	0	\$0	\$0	\$175	\$0	\$175.00	Closed Operations
Omni Array	\$5,060.00	1444	\$5,646.67	1694	\$586.67	250	\$25,410	\$0	\$3,531	\$1,000	\$29,941.02	15601 Crabbs Branch Way, Rockville, MD 20855
Oncolimmune	\$3,300.00	770	\$1,650.14	600	(\$1,649.86)	(170)	\$7,426	\$0	\$3,963	\$1,000	\$12,388.63	12111 Parklawn Drive, Suite 107, Rockville, MD 20852
Opticul	\$364.00	143	\$600.00	250	\$236.00	107	\$2,700	\$0	\$274	\$1,000	\$3,974.37	9605 Medical Center Drive, Ste. 113A, Rockville, MD 20850
Precision Biologics	\$1,641.00	591	\$3,417.00	1439	\$1,776.00	848	\$15,377	\$0	\$2,030	\$0	\$2,030.00	11300 Rockville Pike, Ste. 1140, Rockville, MD 20852
Rafagen	\$3,300.00	770	\$937.00	450	(\$2,363.00)	(320)	\$0	\$0	\$0	\$0	\$0.00	615 S. Frederick Avenue, Ste. 302B, Gaithersburg, MD 20877
Rana	\$1,650.00	432	\$3,296.00	2138	\$1,646.00	1706	\$14,832	\$0	\$3,335	\$1,000	\$19,167.00	7617 Standish Place, Rockville, MD 20855
Reveragen - VIP @ SSIC	\$770.00	308	\$0.00	0	(\$770.00)	(308)	\$0	\$0	\$0	\$500	\$500.00	8070 Georgia Avenue, #416, Silver Spring, MD 20910
Shuttle Pharma - GIC	\$3,845.00	968	\$3,685.00	952	(\$160.00)	(16)	\$0	\$0	\$2,450	\$500	\$2,950.00	20271 Goldenrod Lane, Ste. 2097, Germantown, MD 20876
Signal Processing	\$1,098.00	429	\$1,300.00	550	\$202.00	121	\$5,850	\$0	\$1,189	\$1,000	\$8,039.00	9605 Medical Center Drive, Ste. 127E, Rockville, MD 20850
TFC Consulting	\$2,020.00	711	\$4,896.20	2305	\$2,876.20	1594	\$22,033	\$1,245	\$4,309	\$1,000	\$28,586.49	9901 Belward Campus Drive, Ste. 165, Rockville, MD 20850
VLP Therapeutics	\$3,300.00	770	\$6,006.67	1802	\$2,706.67	1032	\$27,030	\$0	\$2,500	\$1,000	\$30,530.02	19 Firstfield Road, Ste. 100B, Gaithersburg, MD 20878
<b>GRAND TOTALS:</b>	<b>\$94,492.00</b>	<b>26697</b>	<b>\$111,840.08</b>	<b>46,411</b>	<b>\$19,921.08</b>	<b>18,638</b>	<b>\$399,402.36</b>	<b>\$87,415.09</b>	<b>\$125,661.41</b>	<b>\$27,000.00</b>	<b>\$624,111.40</b>	

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