



## UMBC Partnership with Northrop Grumman Expands to Include Health Data Analytics

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MCLEAN, Va., April 14, 2015 /PRNewswire/ -- Northrop Grumman Corporation (NYSE: NOC) has announced the expansion of their cyber work with the University of Maryland, Baltimore County (UMBC), to include research on health data analytics.



The National Science Foundation-sponsored UMBC Center for Hybrid Multicore Productivity Research (CHMPR) is an elite industry/university cooperative research center and consortium committed to addressing the productivity, performance and scalability challenges that come with meeting the demands for increasing big data analytics across cyber, health and other technical and scientific arenas. As a private-public partnership for advancing science and technology, a variety of leading partners from industry, government and academia collaborate on key national priorities through CHMPR.

The UMBC-Northrop Grumman collaboration began with a cybersecurity initiative and is now leveraging the big data analytics used in cyber and applying the tools and technologies to health. This has enabled Northrop Grumman to dive into expansive health data on a variety of subjects, such as the impacts of cardiovascular disease as it relates to smoking, obesity and pharmaceutical drug use.

"CHMPR has provided greater clinical access to information, analytic techniques and natural language processing," said Amy Caro, vice president and general manager, health division, Northrop Grumman Information Systems. "Our efforts have yielded real-time results and are driving programs and practices that are helping to improve the health of large populations. As we move forward, our security capabilities and work with CHMPR will allow for continued large scale data mining to help inform breakthrough research and drive better health outcomes."

Northrop Grumman has been a member and supporter of CHMPR, since its inception and chairs the CHMPR Industry Advisory Board. Northrop Grumman and UMBC started their participation with CHMPR focusing on cyber to demonstrate a commitment to that mission and have since expanded that focus to include high performance computing and big data analytics in the health arena. Most recently, Northrop Grumman has provided initial funds to CHMPR's new North Carolina State University planning site.

"Our partnership with Northrop Grumman and our work in cyber and now health are huge steps forward in advancing critical research and driving better business and health results. We couldn't be prouder of these accomplishments and we look forward to continuing this great work," said Yelena Yesha, professor of computer science and CHMPR director, UMBC.

"Working with industry to advance research is a great model and Northrop Grumman and UMBC have been a key leaders and partners in building this industry, government and university consortium to advance issues like cyber security and health analytics," said Rita Rodrigues, program director, National Science Foundation.

As a global provider of cyber solutions, Northrop Grumman has a long-standing commitment to supporting cyber education, training and technology through a number of initiatives. The company has partnered with the bwtech@UMBC Cyber Incubator to form [Cync](#), a unique program that nurtures innovative cyber startups with an eye toward commercializing next-generation technologies to protect against the growing range of cyber threats. Some of Northrop Grumman's other cyber initiatives include partnering with UMBC to launch the [Cyber Scholars Program](#), supporting the University of Maryland [Advanced Cybersecurity Experience for Students](#) program and being the presenting sponsor for [CyberPatriot](#), the nation's premier youth cyber defense competition.

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