

SUMMARY OF ITEM FOR ACTION
INFORMATION OR DISCUSSION

TOPIC: Amazon HQ2 – USM Workforce Report

COMMITTEE: Economic Development and Technology Commercialization

DATE OF COMMITTEE MEETING: Thursday November 9, 2017

SUMMARY: Regent Attman will share the information presented at the last Committee Meeting and review the summary information prepared on behalf of the State's Amazon Headquarters bids.

ALTERNATIVE(S): Informational Item

FISCAL IMPACT: There is no fiscal impact

CHANCELLOR'S RECOMMENDATION:

COMMITTEE RECOMMENDATION: Informational

DATE: Nov 9, 2017

BOARD ACTION:

DATE:

SUBMITTED BY: Tom Sadowski (410) 576-5742

The University System of Maryland (USM)

Response to Amazon HQ2 RFP

The University System of Maryland (USM) is the workforce engine of the State of Maryland, offering a full array of degree programs. There are over 170,000 students enrolled at 12 degree-granting institutions, regional higher education centers and online. Over 40,000 degrees and certificates are awarded at the undergraduate and graduate level each year. Nearly 80% of USM undergraduates remain in Maryland after receiving their degree to pursue their careers.

USM leverages its outstanding academic programs; leading-edge research; and a wealth of business resources and services to develop the talent and ideas that help drive Maryland's economy. Our innovative curricula—including those in business, management, cybersecurity, the life sciences, information technology, and the health sciences—prepare students for the workplace and attract world-class faculty and researchers. USM institutions routinely partner with federal agencies, industry and in global research initiatives to enhance innovation, knowledge and develop best practices. USM helps organizations of all sizes—from startups to established corporations—improve their products and performance.

The tables below present the most recent enrollment figures as well as the total degrees granted, which grew by 3% from FY 2015 to FY 2017.

USM Enrollment (Fall 2017)

Institution	Undergraduate	Graduate	Total
Bowie	4,711	958	5,669
Coppin	2,507	432	2,939
Frostburg	4,884	792	5,676
Salisbury	7,861	887	8,748
Towson	19,198	3,145	22,343
University of Baltimore	3,222	2,761	5,983
University of Maryland, Baltimore	905	5,577	6,482
University of Maryland, Baltimore County	11,142	2,498	13,640
University of Maryland, College Park	28,472	10,611	39,083
University of Maryland Eastern Shore	3,277	627	3,904
University of Maryland, University College	44,219	13,310	57,529
USM Total	130,398	41,598	171,996

USM Degree Production (FY 2015 - FY 2017)

Institution	Bachelor	Graduate	Total
Bowie	2,346	981	3,327
Coppin	1,301	232	1,533
Frostburg	3,056	742	3,798
Salisbury	5,943	851	6,794
Towson	13,478	3,082	16,560
University of Baltimore	2,170	2,378	4,548
University of Maryland, Baltimore	1,148	5,073	6,221
University of Maryland, Baltimore County	7,524	2,261	9,785
University of Maryland, College Park	21,711	10,140	31,851
University of Maryland Eastern Shore	1,665	497	2,162
University of Maryland, University College	16,761	11,268	28,029
USM Total	77,103	37,505	114,608

STEM – Developing the talent driving our economic future

Increasing STEM degrees at the baccalaureate level has been a key priority. *Since FY 2015, the number of degrees awarded has increased 9%, contributing to a 91.5% increase in STEM degrees awarded since 2009. USM is on pace to generate nearly-7,000 new STEM graduates each year.*

USM Bachelor Degrees Awarded in STEM (FY 2015 - FY 2017)

Institution	FY 2015	FY 2016	FY 2017	3-Year Percentage Increase
Bowie	96	101	93	-3%
Coppin	22	25	31	41%
Frostburg	136	132	155	14%
Salisbury	291	282	269	-8%
Towson	530	556	610	15%
University of Baltimore	86	74	75	-13%
University of Maryland, Baltimore	-	-	-	-
University of Maryland, Baltimore County	1103	1,223	1,234	12%
University of Maryland, College Park	2235	2,326	2399	7%
University of Maryland Eastern Shore	122	143	103	-16%
University of Maryland, University College	1550	1,579	1,774	14%
USM Total	6,171	6,441	6,743	9%

Growing a Diverse and Dynamic Workforce, in Maryland and beyond

The University System of Maryland develops Maryland's workforce, offering world-class programming at its institutions, regional education centers and online with more than 170,000 enrolled –reaching more than 84,000 students in over 20 countries and territories around the world. Its comprehensive online institution, the University of Maryland University College (UMUC), is one of the largest providers of educational services and programming to the U.S. military for the past 70-years, with more than 55,000 veteran alumni.

The following tables highlight key workforce areas of strategic interest to Amazon. At the undergraduate level, the degrees produced in STEM, Cyber Security, Health Professions, Accounting, Business & Management (All Areas), Computer Science (All Areas), Engineering (All Areas), and the specific programs of Computer Programming and Electrical Engineering are displayed. At the graduate level, the graduate degrees of all Business & Management programs (including MBA or Executive MBA), Law, Public Administration, and Medical or Health Professions (e.g., Doctors, Surgeons, Dentists, and Nurses) are displayed in the second table.

USM Bachelor Degree Production in Key Workforce Areas (FY 2015 - FY 2017)

Institution	STEM	Health		Accounting	All Business & Management (General)	Computer	All Computer Science (General)	All Engineering (General)
		Professions	Cyber - Security			Programming or Electrical Engineering		
Bowie	290	248	144	-	366	-	128	-
Coppin	78	298	31	26	114	-	24	-
Frostburg	423	397	172	82	389	-	152	80
Salisbury	842	421	359	203	955	-	262	-
Towson	1,696	1,777	816	458	1,933	-	678	-
University of Baltimore	235	-	208	-	956	-	208	-
University of Maryland, Baltimore	-	1,148	-	-	-	-	-	-
University of Maryland, Baltimore County	3,560	344	1,425	-	30	-	1,209	601
University of Maryland, College Park	6,960	482	2,018	910	3,008	385	1,244	2,918
University of Maryland Eastern Shore	368	117	57	46	326	-	42	102
University of Maryland, University College	4,903	427	4,998	863	6,211	-	4,798	50
USM Total	19,355	5,659	10,228	2,588	14,288	385	8,745	3,751

USM Graduate Degree Production in Key Workforce Areas (FY 2015 - FY 2017)

Institution	Business & Management (General)	Law (General)	Public Administration	Medical & Health Professions
Bowie	44	-	92	118
Coppin	38	-	-	40
Frostburg	234	-	-	12
Salisbury	97	-	-	19
Towson	169	-	-	679
University of Baltimore	664	927	244	-
University of Maryland, Baltimore	-	740	-	2741
University of Maryland, Baltimore County	136	-	-	30
University of Maryland, College Park	2563	-	86	361
University of Maryland Eastern Shore	-	-	-	283
University of Maryland, University College	7308	-	-	-
USM Total	11,253	1,667	422	4,283

Serving the Entire State of Maryland

Inclusive of the enrollment and degree production highlighted, there are three USM Regional Centers where region-specific education and training needs are met in partnership with local employers and community colleges. In addition, research facilities have been developed at the Universities at Shady Grove in the areas of cyber, bio-health and bio-manufacturing. A new USM facility at the Southern Maryland Higher Education Center is dedicated to advancing autonomous systems and robotics technology.

USM Higher Education Regional Centers

Universities at Shady Grove **3,783 Enrolled**

Located in Montgomery County Health Science Technology Corridor

Participants: Bowie; Salisbury; Towson; UB; UMB; UMBC; UMCP; UMES; UMUC

Offers Upper-Division Bachelor Completion and Graduate Program in the areas of STEM; Business, Social Sciences, Health Professions; Education

Southern Maryland Higher Education Center **383 Enrolled**

Located in St. Mary's County near Patuxent Naval Air Base, adjacent to private airport and UMCP Autonomous Systems Test Center

Participants: Bowie, Salisbury, Towson, UMCP, UMUC

Offers Upper-Division Bachelor Completion and Graduate Program in the areas of Engineering, Business, Social Sciences, Health Professions; Education

University System of Maryland at Hagerstown **479 Enrolled**

Located in Washington County

Participants: Frostburg, Salisbury, Towson; UMES; UMUC

Offers Upper-Division Bachelor Completion and Graduate Program in the areas of Business, Social Sciences, Health Professions; Education