

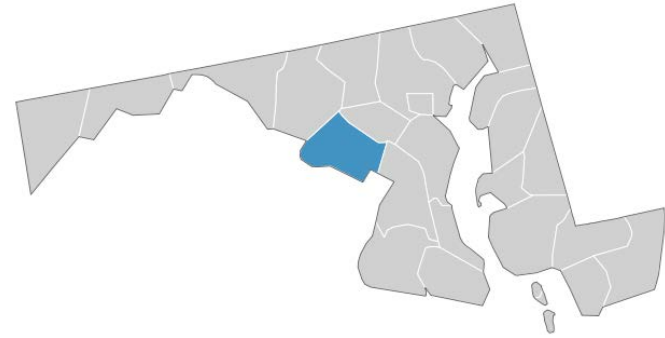
Regional Economic Trends

From Recession to Recovery and
Beyond

Prepared by the Office of the Vice President for Planning and Institutional Effectiveness

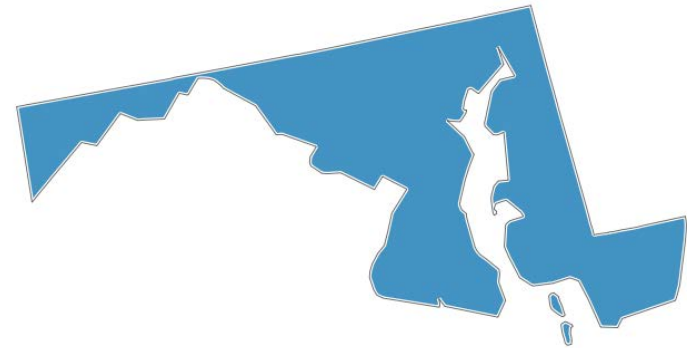
Montgomery County

- 2013 Population = 1 million
- 7.7% growth in the last 5 years
- Largest industries are Government and Professional, Scientific, and Technical Services



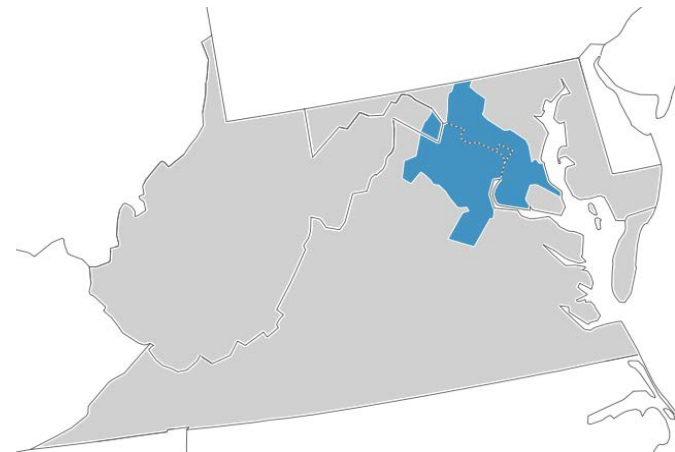
Maryland

- 2013 Population = 5.9 million
- 4.1% growth in the last 5 years
- Largest industries are Government and Healthcare & Social Assistance

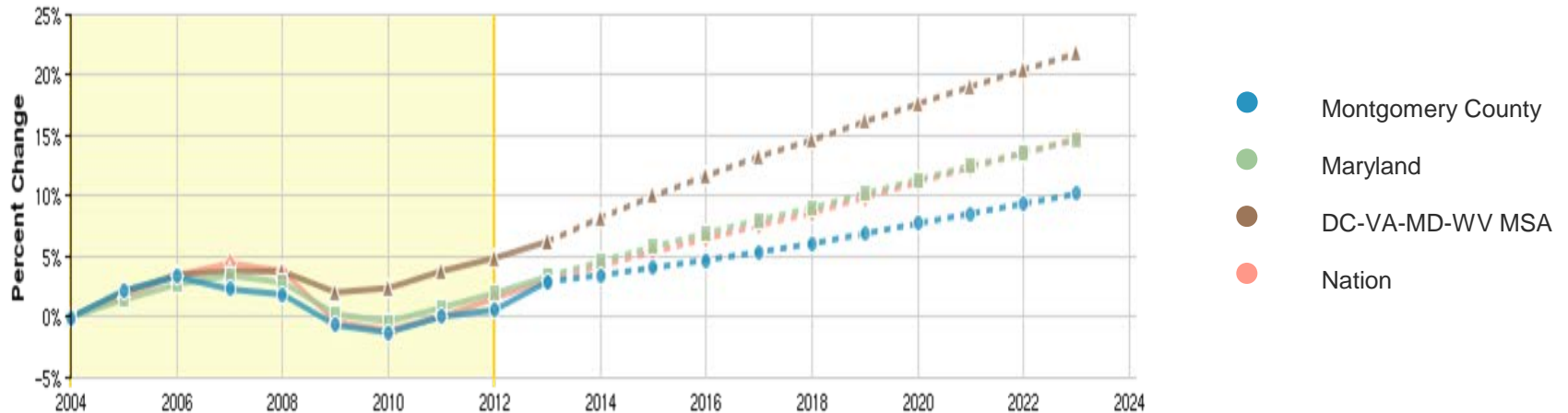


DC-VA-MD-WV MSA

- 2013 Population = 5.9 million
- 9.1% growth in the last 5 years
- The DC-VA-MD-WV Metropolitan Area includes Montgomery County, 4 other MD counties, the District of Columbia, 15 VA counties and cities, and 1 WV county.



Regional Economic Trends



- Prior to the economic downturn in 2008, Montgomery County had experienced a job growth rate of 1.9% between 2004 and 2008, resulting in a net gain of 9,584 new jobs.
- At the height of the recession between 2008 and 2010, Montgomery County lost 15,920 jobs, a 3.1% decline, Maryland and the DC Metro saw a 3.2% and 1.3% decline, respectively
- Most of the occupational loss was seen in low-skilled, low paying occupations across the County, State, Metropolitan Area, and Nation.

Impact of the Recession

Occupational Category	MC Change 08-10	MD Change 08-10	DC Metro Change 08-10
Office and Administrative Support Occupations	(4,273)	(20,949)	(15,942)
Construction and Extraction Occupations	(3,987)	(23,476)	(20,949)
Sales and Related Occupations	(3,039)	(15,506)	(11,404)
Management Occupations	(1,538)	(6,783)	(2,556)
Production Occupations	(1,401)	(10,248)	(5,763)
Installation, Maintenance, and Repair Occupations	(1,212)	(6,844)	(6,245)
Transportation and Material Moving Occupations	(944)	(10,049)	(6,026)
Food Preparation and Serving Related Occupations	(743)	(4,331)	(110)
Arts, Design, Entertainment, Sports, and Media Occupations	(652)	(2,671)	(1,950)
Building and Grounds Cleaning and Maintenance Occupations	(459)	(1,927)	(1,383)
Legal Occupations	(420)	(1,030)	70
Architecture and Engineering Occupations	(401)	(485)	(1,241)
Education, Training, and Library Occupations	(244)	765	(418)
Protective Service Occupations	(73)	(106)	2,080
Farming, Fishing, and Forestry Occupations	(59)	(79)	(294)
Personal Care and Service Occupations	(30)	(162)	2,338
Business and Financial Operations Occupations	(28)	(1)	10,414
Military occupations	25	(308)	(1,092)
Computer and Mathematical Occupations	44	1,888	4,487
Community and Social Service Occupations	274	791	1,312
Life, Physical, and Social Science Occupations	730	1,957	3,028
Healthcare Support Occupations	871	3,289	3,394
Healthcare Practitioners and Technical Occupations	1,640	5,756	5,597

- Office Support, Construction, and Sales occupational categories accounted for 52% of the job loss
- Healthcare and some STEM occupational categories continued to enjoy growth despite the recession

Education/ Training	MC Change 08-10	MD Change 08-10	DC Metro Change 08-10
OTJ Training	(14,586)	(87,043)	(50,482)
Postsecondary	(698)	(2,871)	(2,896)
Associate's	(77)	1,780	1,032
Bachelor's	(836)	(1,648)	5,236
Post Baccalaureate	360	(417)	5,571

- Within the occupational categories, occupations requiring a minimum of a H.S. diploma or OTJ training lost the most number of jobs
- Occupations requiring a 2-year degree or beyond enjoyed varied growth or slower rates of decline

Recovery 2010 - 2012

Region	2008-2010 Change	2010-2012 Change	% Jobs Recovered
Montgomery	(15,920)	9,377	59%
Maryland	(90,508)	65,295	72%
DC Metro	(42,653)	77,346	181%

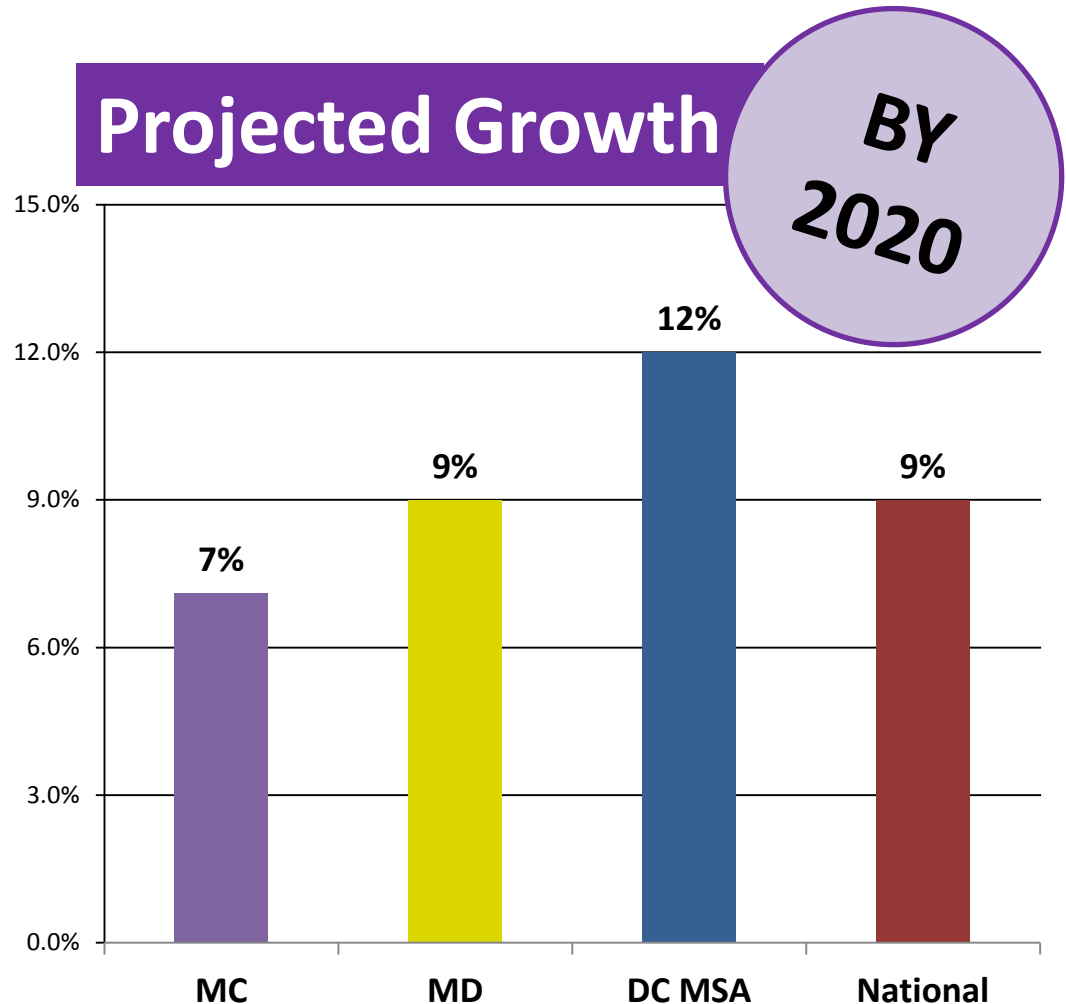
Occupational Category	MC Change 10-12	MD Change 10-12	DC Metro Change 10-12
Food Preparation and Serving Related Occupations	1,569	10,831	15,880
Healthcare Practitioners and Technical Occupations	1,395	6,770	4,510
Education, Training, and Library Occupations	1,383	2,113	5,693
Business and Financial Operations Occupations	992	7,554	9,889
Personal Care and Service Occupations	838	4,453	6,025
Construction and Extraction Occupations	782	982	3,333
Management Occupations	660	3,458	4,602
Community and Social Service Occupations	538	922	1,379
Healthcare Support Occupations	535	2,562	2,898
Life, Physical, and Social Science Occupations	476	1,551	712
Military occupations	375	3,480	(1,102)
Installation, Maintenance, and Repair Occupations	366	1,500	1,272
Computer and Mathematical Occupations	269	5,063	7,195
Building and Grounds Cleaning and Maintenance Occupations	228	590	2,879
Office and Administrative Support Occupations	173	5,074	2,840
Arts, Design, Entertainment, Sports, and Media Occupations	171	282	2,896
Legal Occupations	103	426	482
Transportation and Material Moving Occupations	74	3,955	3,297
Architecture and Engineering Occupations	22	1,001	(578)
Farming, Fishing, and Forestry Occupations	(182)	163	(116)
Sales and Related Occupations	(411)	3,969	1,723
Production Occupations	(479)	(1,606)	(1,335)
Protective Service Occupations	(498)	203	2,973

Education/ Training	MC Change 10-12	MD Change 10-12	DC Metro Change 10-12
OTJ Training	3,946	34,660	43,786
Postsecondary	333	3,043	2,693
Associate's	500	4,274	2,630
Bachelor's	2,480	11,427	19,189
Post Baccalaureate	1,830	8,400	10,170

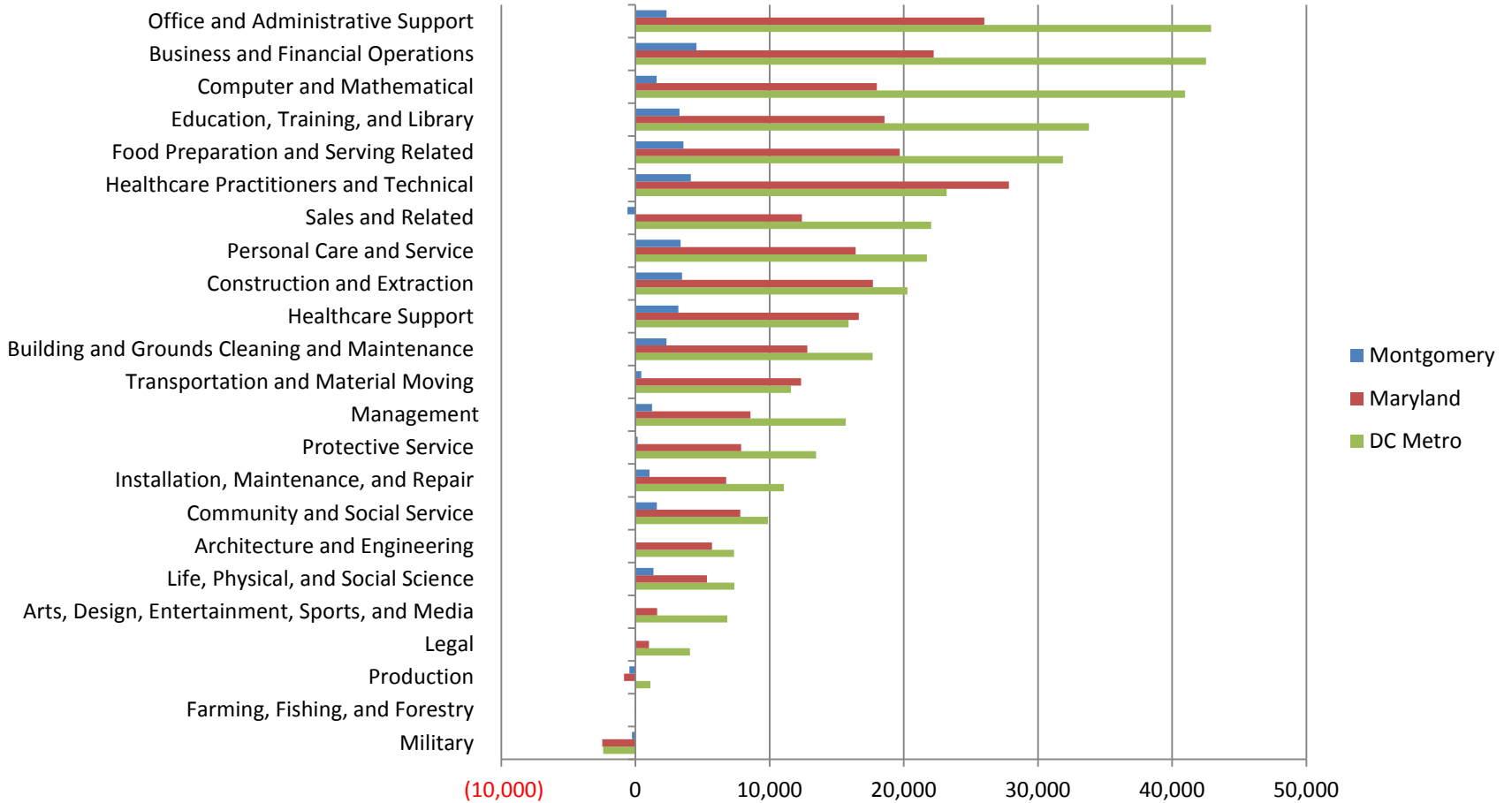
- The DC Metro region, as a whole, experienced a more robust recovery among the three areas
- Much of the gain was seen in Food Prep, Healthcare, Education, and Finance Occupational Categories
- Occupations requiring an Associates and Bachelor's degrees saw the largest percentage of lost jobs recovered

Economic Growth 2012 - 2020

- Montgomery County's economy supported 511,240 jobs in 2012. By 2020, this number is expected to top 547,595.
- Between 2012 and 2020, Montgomery County's economy is projected to add a total of **36,355 net new jobs** for a gain of 7%
- Maryland is projected to add **262,053 net new jobs** for a gain of 9%
- The DC Metropolitan Area is projected to add **398,846 net new jobs** for a gain of 12%

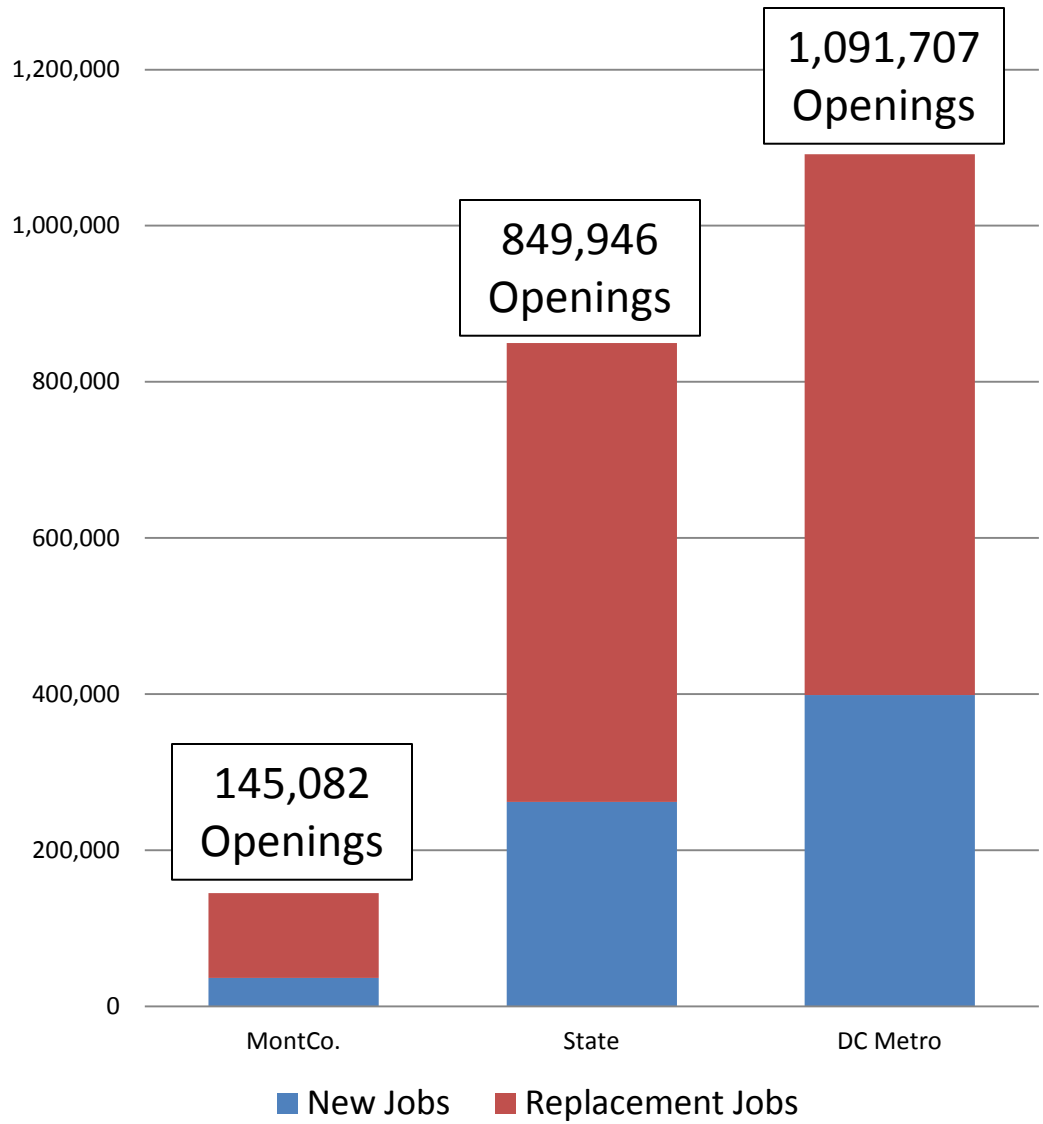


Net New Jobs By Occupational Category



Total Number of Job Openings 2012-2020

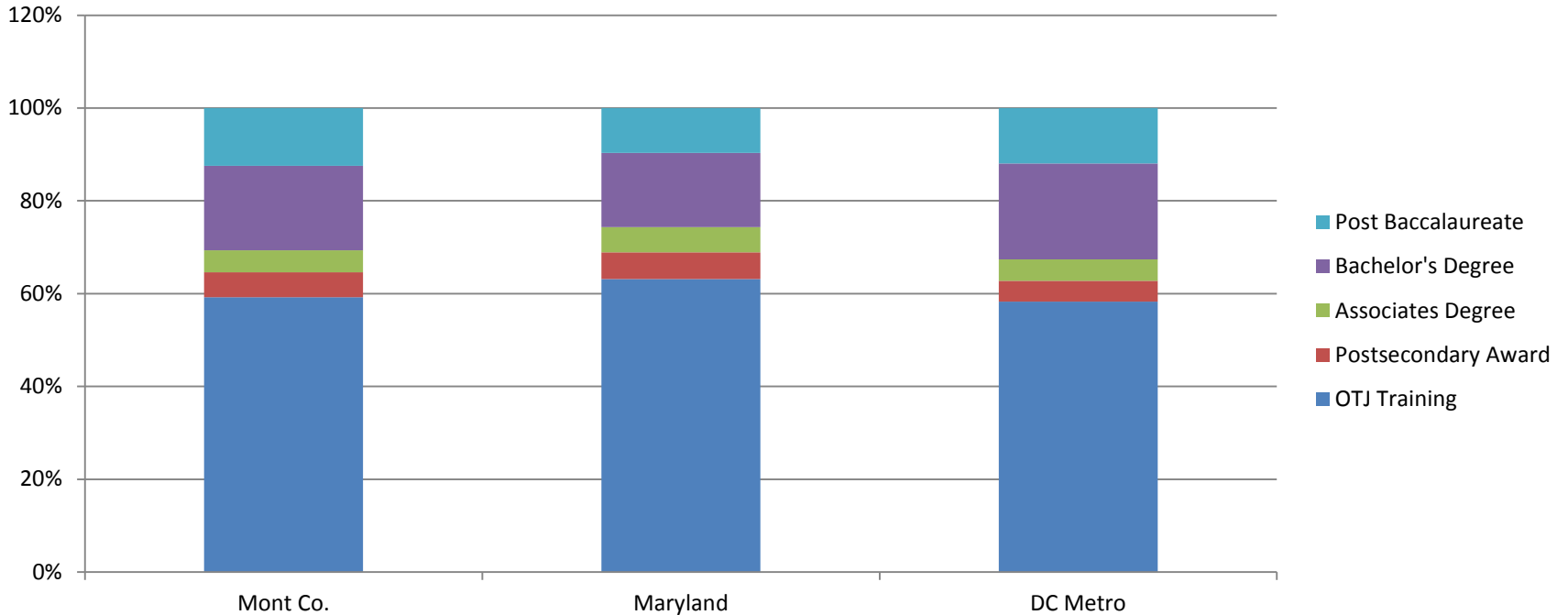
- Nearly 75% of all openings in Montgomery County will be for replacement workers needed to fill jobs becoming vacant between 2012 and 2020
- 70% of all openings in Maryland will be for replacement jobs, and 64% in the DC Metro area.
- The total number of new workers needed in Montgomery County between 2012 and 2023 is projected at 145,082 (new & replacement)



Top Occupations by Demand 2012 - 2020

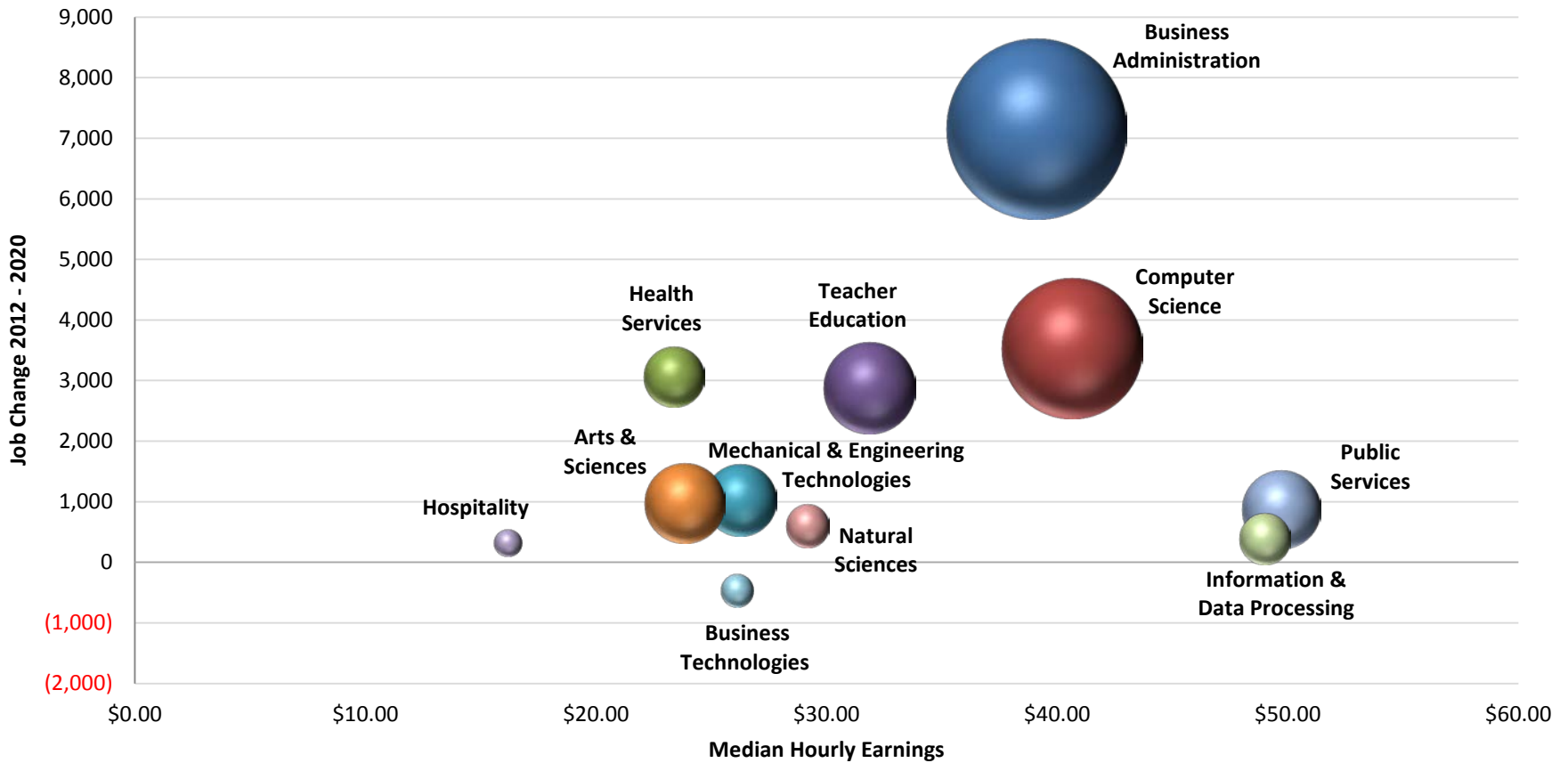
	Postsecondary	Associate's	Bachelor's
Mont. Co.	<u>Nursing Assistants</u> Avg. Hrly Wage = \$14.47 1,434 Openings	<u>Registered Nurses</u> Avg. Hrly Wage = \$36.71 1,133 New Jobs	<u>Accountants & Auditors</u> Avg. Hrly Wage = \$40.28 1,646 Openings
	<u>Licensed Practical & Vocational Nurses</u> Avg. Hrly Wage = \$25.73 933 Openings	<u>Preschool Teachers (except special ed.)</u> Avg. Hrly Wage = \$17.76 735 Openings	<u>Market Research Analysts</u> Avg. Hrly Wage = \$36.31 1,119 Openings
	<u>Automotive Technicians</u> Avg. Hrly Wage = \$21.19 590 Openings	<u>Computer Support Specialists</u> Avg. Hrly Wage = \$29.02 637 Openings	<u>Elementary School Teachers</u> Avg. Hrly Wage = \$35.22 1,023 Openings
Maryland	<u>Nursing Assistants</u> Avg. Hrly Wage = \$13.82 8,197 Openings	<u>Registered Nurses</u> Avg. Hrly Wage = \$34.07 17,975 Openings	<u>Accountants & Auditors</u> Avg. Hrly Wage = \$36.02 7,518 Openings
	<u>Licensed Practical & Vocational Nurses</u> Avg. Hrly Wage = \$24.03 5,449 Openings	<u>Computer Support Specialists</u> Avg. Hrly Wage = \$25.49 5,070 Openings	<u>Elementary School Teachers</u> Avg. Hrly Wage = \$29.59 7,517 Openings
	<u>Heating, Air Conditioning, & Installation</u> Avg. Hrly Wage = \$23.36 3,199 Openings	<u>Preschool Teachers (except special ed.)</u> Avg. Hrly Wage = \$15.54 3,277 Openings	<u>Software Developers, Applications</u> Avg. Hrly Wage = \$30.33 5,582 Openings
DC Metro	<u>Nursing Assistants</u> Avg. Hrly Wage = \$14.90 6,100 Openings	<u>Registered Nurses</u> Avg. Hrly Wage = \$35.87 13,621 Openings	<u>Accountants & Auditors</u> Avg. Hrly Wage = \$41.74 12,531 Openings
	<u>Licensed Practical & Vocational Nurses</u> Avg. Hrly Wage = \$24.21 4,362 Openings	<u>Computer Support Specialists</u> Avg. Hrly Wage = \$30.29 8,485 Openings	<u>Software Developers, Systems Software</u> Avg. Hrly Wage = \$55.77 11,829 Openings
	<u>Automotive Technicians</u> Avg. Hrly Wage = \$22.59 4,236 Openings	<u>Preschool Teachers (except special ed.)</u> Avg. Hrly Wage = \$16.59 4,083 Openings	<u>Market Research Analysts</u> Avg. Hrly Wage = \$36.53 11,214 Openings

Openings by Education/Training



Education/Training	MC Openings 2012-2020	% Replacement	MD Openings 2012-2020	% Replacement	DC Metro Openings 2012 - 2020	% Replacement
OTJ Training	85,738	78%	536,377	73%	635,917	67%
Postsecondary	7,764	64%	49,290	61%	48,886	61%
Associate's	6,865	65%	45,900	53%	50,713	56%
Bachelor's	26,408	71%	136,241	61%	225,813	55%
Post Baccalaureate	18,000	74%	81,940	67%	130,112	65%

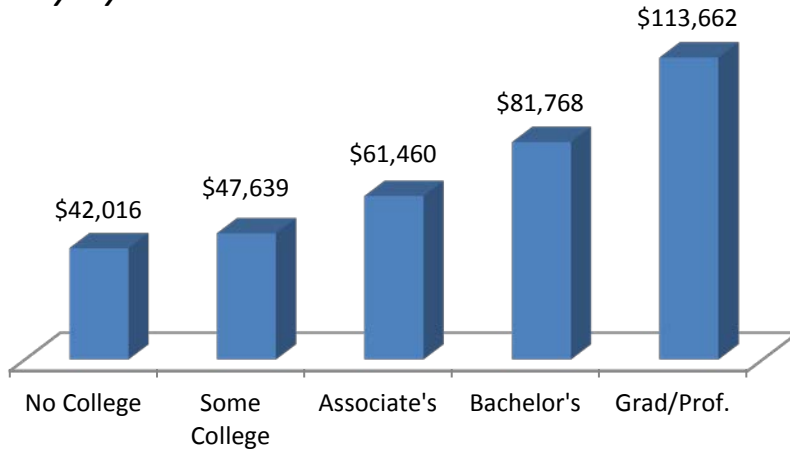
Occupational Growth by Academic Program (Montgomery County)



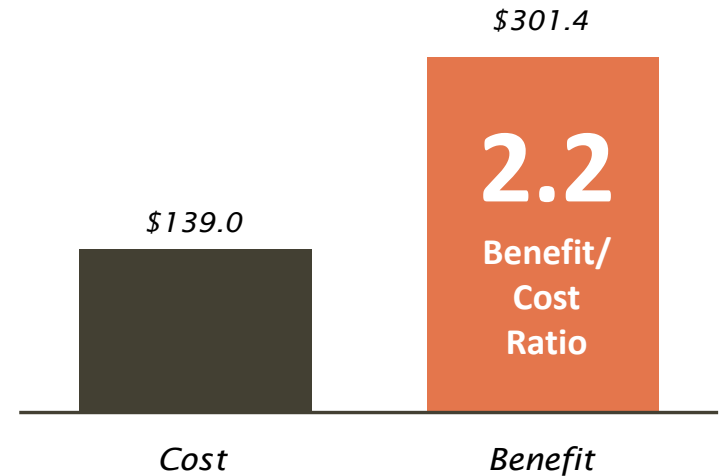
- The size of each bubble represents the total number of job openings (new and replacement) in Montgomery County related to each academic program in 2012.
- The bubble's position on the vertical axis indicates new job growth and its position on the horizontal scale indicates Median Hourly Earnings.
- While some program groupings evidence low job growth between 2012 and 2020, the number of replacement jobs will often be much higher.
- The key is to look for high wage, high growth, and high number of openings.

Economic Impact of Montgomery College

Average annual income in Montgomery County by education



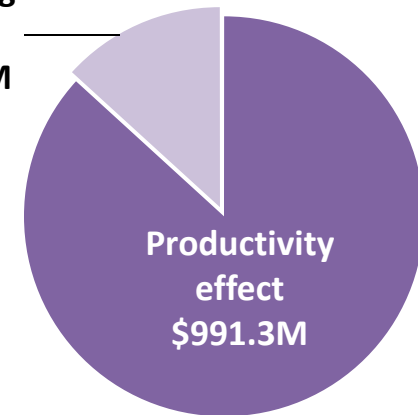
Benefits and costs to state and local taxpayers due to MC, \$ millions



Added Income to Region Due to Montgomery College

<i>College operations effect</i>	<i>\$150,678,000</i>
<i>Student spending effect</i>	<i>\$553,000</i>
Total spending effect	\$151,231,000
<i>Student productivity effect</i>	<i>\$991,298,000</i>
GRAND TOTAL	\$1,142,529,000

Spending effect
\$151.2M



Take Aways

- Healthcare, Education, Business, and Computer related occupations will remain strong and in demand for the foreseeable future.
- While the bulk of job openings will for be those that typically require no degree, there will still be a strong demand for skilled workers within these occupations.
- An expanded WD&CE non-credit program can take advantage of the occupational growth seen in many of the On-the-Job training occupations, as well as transition workers toward degree programs and provide industry required continuing certification.
- The number of workers needed to replace those currently in the workforce will outpace the creation of new jobs due to retirements and turnover across all occupations.
- Montgomery College's graduates and its credit and non-credit programs will remain vital components to county, state, and regional economic development.

Useful Links

- Montgomery College's Career Coach
 - <http://cms.montgomerycollege.edu/careercoach.html>
- Environmental Scanning Webpage
 - <http://cms.montgomerycollege.edu/EDU/Department.aspx?id=45571>