

Education Asset Inventory

A landscape analysis of credentials offered for targeted sectors in Greater Kansas City











5th Annual Inventory | November 2019



OVERVIEW

The Education Asset Inventory is produced by the Mid-America Regional Council (MARC) to

- Provide educators and students with the most current list of credentials being offered to prepare for high-demand occupations.
- Present areas of opportunity for colleges and universities to develop curriculum for new programs where there are gaps.
- Share industry insights to better prepare the next generation workforce for indemand occupations in Greater Kansas City.

METHODOLOGY

Using employment and other economic data, MARC's research services staff identified five sectors that are particularly important to the regional economy — traded sectors in which we specialize. These include: Advanced Manufacturing, Engineering and Architecture, Finance and Insurance, Information Technology and Life Sciences.

In 2015, the first edition of this report was produced in partnership with the Council for Adult & Experiential Learning (CAEL). Since 2016, MARC has taken the methodology established by CAEL and expanded it to include the Life Sciences industry; added or removed institutions based on closures, expansions and contributions to the targeted industry sectors; added important programs that are growing in demand, such as data analytics and business analytics; and, most recently, captured more online and hybrid programs being offered in the region.

The schools highlighted in this report are within a 150-mile radius of the Kansas City region and offer credentials that benefit at least one of the targeted industries. Since the first report, several public and private institutions (or their satellite campuses) have been added and some for-profit institutions have closed or are no longer accepting students.

Program offerings for credentials in the targeted industries were identified from online course catalogs and information confirmed and/or provided by the institutions. We strive to make the inventory as accurate as possible as of the time of publication. To notify MARC of any errors or omissions, please contact Erika Garcia Reyes, egarcia@marc.org.

ABOUT MARC

MARC is a nonprofit association of city and county governments and the metropolitan planning organization for the bistate Kansas City region. Governed by a Board of Directors made up of local elected officials, MARC serves nine counties — Cass, Clay, Jackson, Platte and Ray counties in Missouri, and Johnson, Leavenworth, Miami and Wyandotte counties in Kansas — and 119 cities. MARC provides a forum for the region to work together to advance social, economic and environmental progress. The agency's work is organized under eight interrelated policy goals: efficient transportation and quality places; a healthy environment; a competitive economy; effective local government; safe and secure communities; quality early learning; thriving older adults and communities; and exemplary core capacities. MARC is funded by federal, state and private grants, local contributions and earned income. A major portion of MARC's budget is passed through to local governments and other agencies for programs and services.

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Partners

Regional Leadership Groups

- Civic Council of Greater Kansas City
- Greater Kansas City Chamber of Commerce
- Kansas City Area Development Council
- Mid-America Regional Council

Philanthropy

- Bloch Family Foundation
- DeBruce Foundation
- Ewing Marion Kauffman Foundation
- Greater Kansas City Community Foundation
- Hall Family Foundation
- Hispanic Development Fund
- United Way of Greater Kansas City

Workforce Investment Boards

- Full Employment Council
- Workforce Partnership

K-12 Civic Intermediaries

- KC STEM Alliance
- Missouri Career Pathways
- PREP-KC
- Urban Education Research Center

Nonprofit Organizations

- Big Brothers Big Sisters of Kansas City
- Kansas State College Advising Corps
- KC Scholars
- Missouri College Advising Corps
- National College Advising Corps

Secondary Education

- Blue Valley CAPS
- Kansas City Kansas School District
- Kansas City Missouri School District
- Liberty School District
- Manual Technical Center
- North Kansas City School District
- Northland CAPS
- Shawnee Mission School District
- Summit Tech Academy

Postsecondary Education

- Avila University
- Baker University
- Donnelly College
- Johnson County Community College
- Kansas City Kansas Community College
- Kansas State University
- Lincoln University
- Metropolitan Community College
- Park University
- Rockhurst University
- University of Central Missouri
- University of Kansas
- University of Missouri Columbia
- University of Missouri Kansas City
- Western Governors University
- William Jewell College

Introduction

Developing and retaining a talented, educated workforce is critical to regional prosperity. As employers adopt emerging technologies and compete on the global stage, there is a continual demand on educational institutions to adjust their curriculum to meet business needs, teaching the skills and competencies students need to be successful in the 21st century workforce and beyond.

The Education Asset Inventory is designed to help educators and administrators better align educational output with industry needs. The inventory provides a comprehensive overview of degree programs in specific high-growth sectors that are available at public, private and nonprofit postsecondary institutions located within the Kansas City region. This tool can help educators and administrators make informed decisions about courses and curriculum, and help prospective students find institutions that offer the credentials they need for their chosen careers.

Each year since 2015, the Mid-America Regional Council (MARC) has published the Education Asset Inventory on behalf of GradForce KC, a regional network of educators and organizations convened by MARC to focus on improving postsecondary educational attainment,

and fostering the development of career pathways and talent pipelines to support economic and civic vitality.

meeting the talent needs of industry,

GradForce KC members include the region's largest school districts (by enrollment); tech academies; representatives from a network of 17 public and nonprofit postsecondary institutions; nonprofit, philanthropic and workforce organizations that are regional in scope and have a complementary mission; state officials located in the region whose work is related to education; and education intermediaries.

In addition to the Education Asset Inventory, MARC helps advance GradForce KC's mission with Talent-to-Industry Exchanges — in-depth, sector-specific processes that couple deep economic and labor force analysis with direct input from leading firms in key industries — and other workforce development publications. Learn more at kcworkforce.org/reports.htm.

Through its work, GradForce KC is helping many stakeholders and partners across the region — government agencies, nonprofits, foundations and more — advance educational attainment in our region. Some of these efforts are described on the following page. We would like to take this opportunity to thank all our community stakeholders for their partnership and ongoing support and collaboration.

Increasing Postsecondary Attainment

KC DEGREES connects adults in the Kansas City region, age 25 and older, to quality credentials and degrees by providing comprehensive career and education advising services and referrals to community organizations to help address barriers to success, including financial, family and/or academic barriers. To date, KC Degrees has helped 97 adults complete a postsecondary program and another 432 adults are currently enrolled.

Degrees
Connecting Adults to Credentials & Careers

KC Degrees encourages clients to use the Agile Work Profiler developed by the DeBruce Foundation to gauge their

interests and abilities. The profiler, which takes only 10 minutes to complete, helps students identify career options, gain a better understanding of the careers that might be of the most interest to them, learn how much training and education is required, and find out how much they can expect to earn. KC Degrees College Success Navigators then help guide students through application and enrollment processes.

KC SCHOLARS is a regional workforce pipeline program that provides scholarships and college planning, persistence and completion support for high school students and adult learners as they pursue credit-bearing credentials, associate and/or bachelor's degrees. As of the fall semester of 2019, 1,200 KC Scholars are enrolled in college.



Launched on the same day in late 2016, KC Scholars and KC
Degrees work with a postsecondary network of 17 regional
higher education institutions. The information in this report is shared with these
institutions each fall to highlight gaps in education and training opportunities across
the postsecondary spectrum, from certificates to doctoral degrees. For example, earlier
editions of the Education Asset Inventory illustrated the need for more credentials
in cybersecurity to meet growing workforce needs, and postsecondary institutions
responded by adding programs in this emerging field.

Promoting Regional Prosperity

KC RISING is a collaborative effort of the Civic Council of Greater Kansas City, the Kansas City Area Development Council, the Greater Kansas City Chamber of Commerce and the Mid-America Regional Council, focused on inclusive regional economic prosperity. This business-led effort includes representation from government, education, and civic and nonprofit organizations. KC Rising brings people and organizations together to achieve a shared vision of regional prosperity for all by aligning and accelerating community efforts for greatest impact.

KC Rising measures success by comparing the region to 30 peer metros on a variety of indicators, with a goal of being a top-10 metro in quality jobs, gross regional product and median household income. KC Rising contributed to this report by providing business insights from employers in key traded sectors.



Postsecondary Credentials

Throughout the inventory, available programs are categorized by the type of credential a student may earn. General definitions for each credential type are provided below.

- Certificate A credential verifying the completion of a program area. Certificates typically
 require at least one but less than two full-time-equivalent academic years, or from 900
 to 1,800 contact hours.
- Associate Degree A credential that requires at least two but less than four years of full-timeequivalent college course work.
- Concentration This category includes an undergraduate-level sequence of at least four courses, or 12 credit hours, in a specific program area.
- Minor A credential for a student's specialization conducted as part of an undergraduate program area. Course requirements vary by program and institution.
- **Bachelor's Degree** A credential, also called a baccalaureate degree, that normally requires at least four but not more than six years of full-time-equivalent college-level course work.
- Master's Degree A credential that requires the completion of a program area beyond the bachelor's degree. It typically requires at least one but not more than two years of fulltime equivalent college-level course work.
- Graduate Certificate A credential verifying the completion of a post-graduate program area
 that is more specialized in scope than a master's degree. It typically can be completed in
 one semester but may take up to a year of full-time equivalent college-level course work.
- Doctorate A credential such as a Ph.D., professional degree or other doctoral degree that requires advanced work beyond the master's level, including the preparation and defense of a dissertation based on original research, or the planning and execution of an original project demonstrating substantial scholarly achievement.

Educational Institutions Included in the 2019 Asset Inventory

The institutions included in the inventory data are listed below and shown by number on the following map.

PUBLIC INSTITUTIONS

- 1. Emporia State University, 1 Kellogg Circle, Emporia, Kansas
- 2. Johnson County Community College, 12345 College Blvd., Overland Park, Kansas
- 3. Kansas City Kansas Community College, 7250 State Ave., Kansas City, Kansas
- 4. Kansas City University of Medicine and Biosciences, 1750 Independence Ave, Kansas City, Missouri
- 5. Kansas State University, Manhattan, Kansas
 - 5A. Olathe Campus, 22201 W Innovation Dr., Olathe, Kansas
- 6. Lincoln University, Jefferson City, Missouri
- 7. Metropolitan Community College
 - 7A. Blue River Campus, 20301 East 78 Highway, Independence, Missouri
 - 7B. Business & Technology Campus, 1775 Universal Avenue, Kansas City, Missouri
 - 7C. Longview Campus, 500 SW Longview Road, Lee's Summit, Missouri
 - 7D. Maple Woods Campus, 2601 NE Barry Road, Kansas City, Missouri
 - 7E. Penn Valley Campus, 3201 Southwest Trafficway, Kansas City, Missouri
- 8. Missouri Western University, St. Joseph, Missouri
- 9. Missouri University of Science & Technology, Rolla, Missouri
- 10. Northwest Missouri State University, 800 University Drive, Maryville, Missouri
 - 10A. Northwest Missouri State University Kansas City Campus, 6889 N. Oak Trafficway, Gladstone, Missouri
- 11. Pittsburg State University, Pittsburg, Kansas
- 12. University of Central Missouri, Warrensburg, Missouri
- 13. University of Kansas, Lawrence, Kansas
 - 13A. Edwards Campus, 12600 S. Quivira Rd., Overland Park, Kansas
 - 13B. Medical Center, 3901 Rainbow Blvd., Kansas City, Kansas
- 14. University of Missouri Columbia, Columbia, Missouri
- 15. University of Missouri Kansas City, 5100 Rockhill Road, Kansas City, Missouri

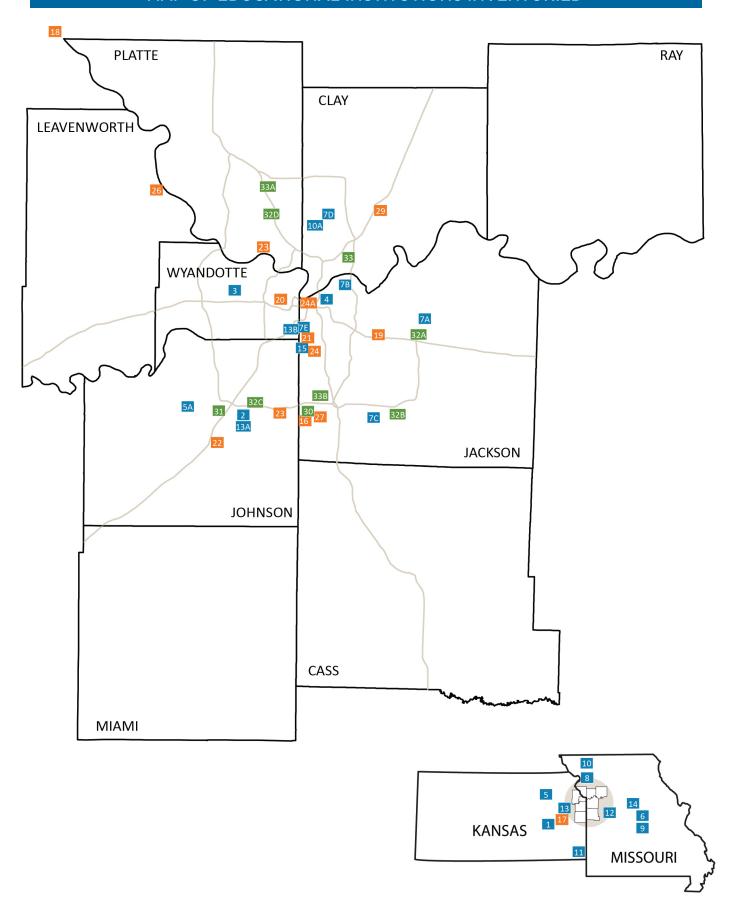
PRIVATE NON-PROFIT INSTITUTIONS

- 16. Avila University, 11901 Wornall Road, Kansas City, Missouri
- 17. Baker University, 618 8th St., Baldwin City, Kansas
- 18. Benedictine College, 1020 N 2nd St., Atchison, Kansas
- 19. Columbia College-Kansas City, 4240 Blue Ridge Blvd. #400, Kansas City, Missouri
- 20. Donnelly College, 608 N 18th St., Kansas City, Kansas
- 21. Kansas City Art Institute, 4415 Warwick Blvd., Kansas City, Missouri
- 22. MidAmerica Nazarene University, 2030 E College Way, Olathe, Kansas
- 23. Ottawa University-Kansas City, 4370 W 109th St. #200, Overland Park, Kansas
- Park University, 8700 NW River Park Dr., Parkville, Missouri
 24A. Park University-Kansas City, 911 Main St. #300, Kansas City, Missouri
- 25. Rockhurst University, 1100 Rockhurst Road, Kansas City, Missouri
- 26. University of Saint Mary, 4100 S 4th St., Leavenworth, Kansas
- 27. Webster University, 10450 Holmes Road #100, Kansas City, Missouri
- 28. Western Governors University Missouri, online only
- 29. William Jewell College, 500 College Hill, Liberty, Missouri

FOR-PROFIT INSTITUTIONS

- 30. DeVry University, 1310 E. 104th St., Suite 120, Kansas City, Missouri
- 31. Grantham University, 16025 W 113th St., Lenexa, Kansas
- 32. National American University
 - 32A. Independence, 3620 Arrowhead Ave., Independence, Missouri
 - 32B. Lee's Summit, 401 NW Murray Road, Lee's Summit, Missouri
 - 32C. Overland Park, 10310 Mastin St., Overland Park, Kansas
 - 32D. Zona Rosa, 7490 NW 87th St., Kansas City, Missouri
- 33. Pinnacle Career Institute
 - 33A. North Kansas City, 11500 NW Ambassador Dr. #221, Kansas City, Missouri
 - 33B. South Kansas City, 1001 E 101st Terr., Suite 325, Kansas City, Missouri

MAP OF EDUCATIONAL INSTITUTIONS INVENTORIED

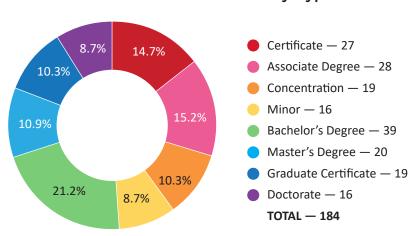


Advanced Manufacturing

Industry Insights

- Students are more likely to be encouraged to pursue a four-year college degree than a career in the trades, even as the demand for skilled trades occupations continues to grow.¹
- High schools in Missouri and Kansas offer Career and Technical Education (CTE) courses that prepare students for the trades, but participation rates average only about 3.4% in Missouri and 10.2% in Kansas.¹
- Currently, 69,212 workers in the Kansas City region are employed in advanced manufacturing occupations.²
- The average annual wage for workers in the advanced manufacturing sector is \$42,900.²
- Total demand (replacement and growth) in this industry over the next five years is expected to add 38,386 jobs.²

Credentials Available by Type



Credentials Available by Institution Type

	Public	Private Non-Profit	For-Profit
Certificate	26	_	1
Associate	26	_	2
Concentration	17	_	2
Minor	16	_	-
Bachelor	30	6	3
Master	20	_	-
Graduate Certificate	19	_	-
Doctorate	16	_	-
Total	170	6	8

Types of Firms:

Precision technologies, CNC machining, millwork, robotics, 3D printing

Local Examples:

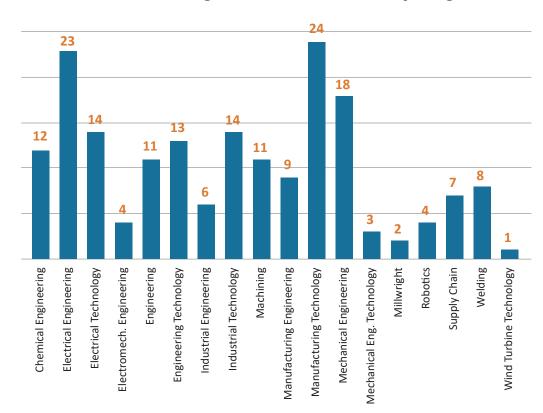
Bayer, Ford, Garmin, GM, Holland America, Honeywell

Total Employment: 69,212 jobs

¹ Skilled Trades Talent-to-Industry Exchange, www.kcworkforce.com/reports.htm

² Jobs EQ

Advanced Manufacturing Credentials Available by Program

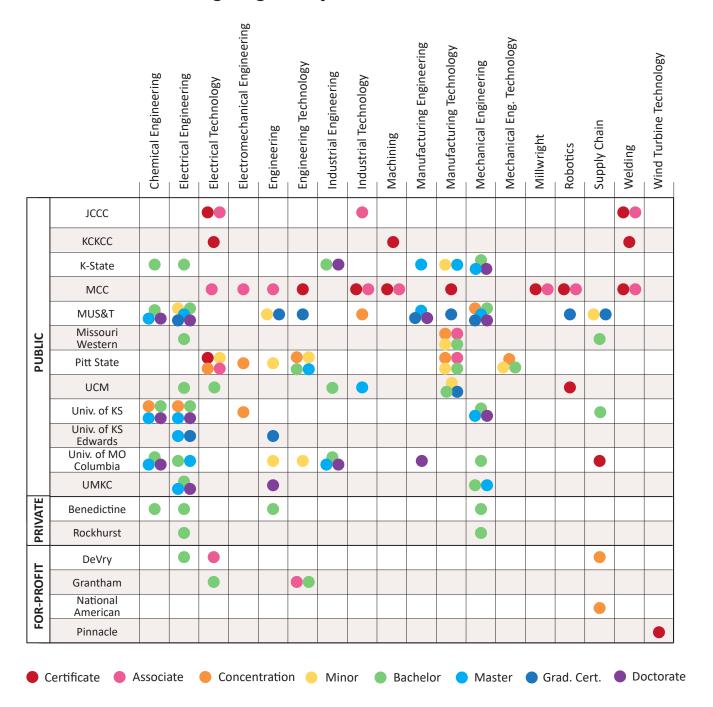


184 Total Credentials

Advanced Manufacturing	Credentials
by Program and Type	

	S.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0	\Z'i	89	1/2	16	/ 8	
Chemical Engineering			1		5	3		3	
Electrical Engineering			1	1	10	5	2	4	
Electrical Technology	4	5	2	1	2				
Electromechanical Engineering		2	2						
Engineering		1		3	1		5	1	
Engineering Technology	1	1	4	2	3	1	1		
Industrial Engineering					3	1		2	
Industrial Technology	6	6	1			1			
Machining	5	6							
Manufacturing Engineering						4	3	2	
Manufacturing Technology	1	2	4	7	5	1	4		
Mechanical Engineering			1		7	4	2	4	
Mechanical Engineering Technology			1	1	1				
Millwright	1	1							
Robotics	2	1					1		
Supply Chain	1		2	1	2		1		
Welding	5	3							
Wind Turbine Technology	1								

Advanced Manufacturing Programs by Institution



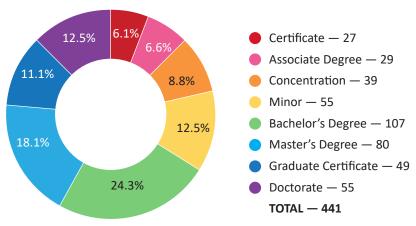


Engineering & Architecture

Industry Insights

- The region's current engineering and architecture workforce lacks diversity. Women make up 51% of the total population, but only 15% of the engineering and architecture workforce. People of color account for 25% of the total population, but only 9% of the workforce in this sector.¹
- Degrees awarded don't always align with local demand. During the 2017-2018 academic year, the number of students earning credentials in entry-level occupations such as surveying and mapping technicians, civil engineering technicians and drafters met only 22% of local demand (63 graduates/293 job openings.)¹
- A total of 19,422 workers in the region are employed in engineering and architecture occupations.²
- The average wage in this sector is \$79,000 per year.²
- Total demand (replacement and growth) in this sector over the next five years is estimated at 8,048 jobs.²

Credentials Available by Type



Credentials Available by Institution Type

	Public	Private Non-Profit	For-Profit
Certificate	26	_	1
Associate	26	1	2
Concentration	38	1	_
Minor	46	9	_
Bachelor	82	21	4
Master	79	_	1
Graduate Certificate	46	2	1
Doctorate	55	_	_
Total	398	34	9

Types of Firms:

Engineering and architectural firms, specialized design services

Local Examples:

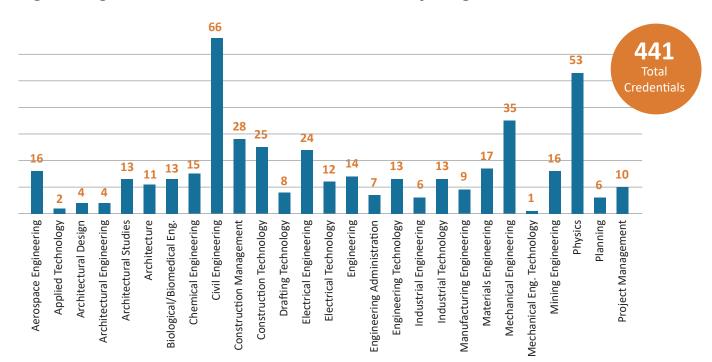
Black & Veatch, BNIM, Burns & McDonnell, HNTB, HOK, Honeywell

Total Employment: 19,422 jobs

¹ Skilled Trades Talent-to-Industry Exchange, www.kcworkforce.com/reports.htm

² Jobs EQ

Engineering & Architecture Credentials Available by Program



Engineering & Architecture Credentials
by Program and Type

Architecture Credentials nd Type	Come	Ass.	Signal Sologian	3 Wing	Bache	Jojs. Nasky	Joe _l O	3
Aerospace Engineering	3		1	3	3	4	2	3
Applied Technology	/				1	1		
Architectural Design	n		1			1	2	
Architectural Engineering	5				2	1	1	
Architectural Studies	5		3	1	2	4	1	2
Architecture	2	1			2	3	4	1
Biological/Biomedical Engineering	1			1	5	3		3
Chemical Engineering	3		2		5	3		5
Civil Engineering	g	2	4	6	20	13	12	9
Construction Management	t 3	3	6	6	5	2	3	
Construction Technology	/ 12	5	2	1	4		1	
Drafting Technology	/ 1	4	1	1	1			
Electrical Engineering	3		1	1	10	6	2	4
Electrical Technology	/ 3	4	2	1	2			
Engineering	g	1		5	2		5	1
Engineering Administration	n			1	1	4		1
Engineering Technology	/ 1	1	4	2	3	1	1	
Industrial Engineering	3				3	1		2
Industrial Technology	/ 5	6	1			1		
Manufacturing Engineering	g					4	3	2
Materials Engineering	5		3	2	2	4	2	4
Mechanical Engineering	5		3	3	9	8	3	9
Mechanical Engineering Technology	/		1					
Mining Engineering	3		2	1	3	4	2	4
Physics	5	2	1	17	21	7		5
Planning	g			3	1	2		
Project Management	1		1			3	5	

Engineering & Architecture Programs by Institution

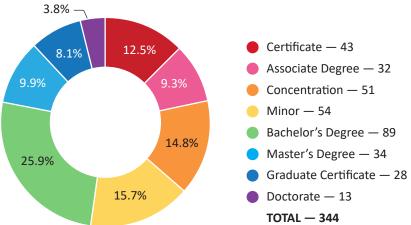
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DeVry Grantham National		Webster																											•
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Information Technology

Industry Insights

- In the Kansas City region, there were forty cybersecurity firms in 2018 that have generated \$2 billion dollars in revenue.¹
- There are currently 41,114 workers employed in IT occupations in the region.²
- The average annual wage in this sector is \$77,900.²
- Total demand (replacement and growth) is expected to add 20,237 jobs in this sector over the next five years.²
- In the next five years, there will be a need for an additional 6,585 software developers and programmers.²





Credentials Available by Institution Type

	Public	Private Non-Profit	For-Profit
Certificate	31	6	6
Associate	25	3	4
Concentration	25	15	11
Minor	38	16	_
Bachelor	50	30	9
Master	26	4	4
Graduate Certificate	25	2	1
Doctorate	13	_	_
Total	233	76	35

Types of Firms:

Health IT, software publishers, data processing, hosting and related services, computer systems design services

Local Examples:

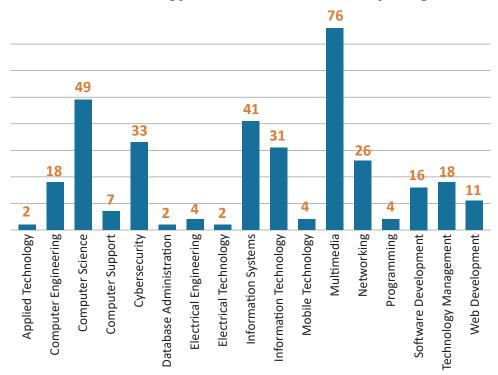
Cerner, DST, Jack Henry & Associates, Netsmart Tech

Total Employment: 41,114 jobs

¹Enterprise KC

² Jobs EQ

Information Technology Credentials Available by Program





Information Technology Credentials
by Program and Type

	S	155	3	Mir	Bang.	To Zo	150	/8	
Applied Technology	1				1				
Computer Engineering		4	1		6	4		3	
Computer Science	2	2	2	12	19	7		5	
Computer Support	4	1		2					
Cybersecurity	5	1	7	5	4	5	6		
Database Administration			2						
Electrical Engineering						1	1	2	
Electrical Technology		1		1					
Information Systems	5	5	4	8	14		5		
Information Technology	2	2	4	4	10	7	2		
Mobile Technology	1			1			2		
Multimedia	6	6	15	18	23	2	5	1	
Networking	8	5	4	1	3	1	3	1	
Programming	2	1			1				
Software Development	3	2	5		3	2	1		
Technology Management	1		2	1	5	5	3	1	
Web Development	3	2	5	1					

Information Technology Programs by Institution

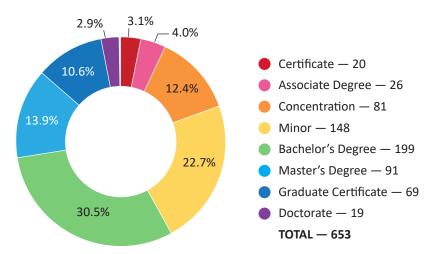
		Applied Technology	Computer Engineering	Computer Science	Computer Support	Cybersecurity	Database Administration	Electrical Engineering	Electrical Technology	Information Systems	Information Technology	Mobile Technology	Multimedia	Networking	Programming	Software Development	Technology Management	Web
	Emporia State																	
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Finance & Insurance

Industry Insights

- Business degrees make up a large portion of the region's postsecondary attainment, but the field is changing rapidly. The World Economic Forum estimates that 65 percent of children entering primary school today will ultimately end up working in completely new job types that don't yet exist.¹
- During the 2017-2018 academic year, 635 degrees were awarded in statistics, but the demand was only 30 per year. However, some of these degrees prepare students for a wide variety of fields and career paths.²
- The finance and insurance sector employs 69,573 individuals in the Kansas City region.²
- The average wage in this sector is \$63,100 per year.²
- Total demand (replacement and growth) is expected to add 35,374 jobs in this industry over the next five years.²

Credentials Available by Type



Credentials Available by Institution Type

	Public	Private Non-Profit	For-Profit
Certificate	12	6	2
Associate	12	7	7
Concentration	37	33	11
Minor	87	61	_
Bachelor	107	81	11
Master	55	30	6
Graduate Certificate	42	22	5
Doctorate	19	_	_
Total	371	240	42

Types of Firms:

Banks, securities and brokerage firms, insurance carriers and agencies

Local Examples:

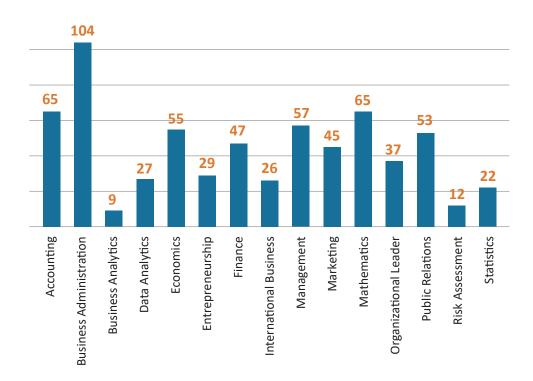
American Century Mutual Funds, Arthur J. Gallagher & Co., Bank of America Corporation, BATS, Commerce Bank, Kansas City Life, Lockton, UMB

Total Employment: 69,573 jobs

¹ "The Future of Jobs," Chapter 1. http://reports.weforum.org/future-of-jobs-2016 ² Jobs EQ

Finance & Insurance Credentials Available by Program





Finance & Insurance Credentials by Program and Type

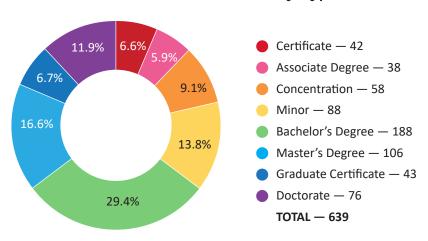
	Kaj.	45s		Min	Bach	Mass	Sport Sport	00
Accounting	3	5	7	9	24	11	5	1
Business Administration	1	11		25	26	32	8	1
Business Analytics			1	1	2	2	3	
Data Analytics	3		2	4	6	5	7	
Economics		1	3	20	23	4		4
Entrepreneurship	2		8	12	2		4	1
Finance	2		8	8	17	4	8	
International Business	1		10	6	6	2	1	
Management	2	6	10	7	16	7	8	1
Marketing	1	2	11	11	15	1	3	1
Mathematics				19	27	9	5	5
Organizational Leader	2		4	9	7	3	11	1
Public Relations	1		11	11	21	6	2	1
Risk Assessment	2	1	5	1	2	1		
Statistics			1	5	5	4	4	3

in	ance & Insu	irance	e Pro	gram	is by	Insti	tutio	n	_	¥		S	la			
		_ Accounting	— Business Admin.	Business Analytics	Data Analytics	Economics	Entrepre- neurship	 Finance	International Business	— Management	— Marketing	— Mathematics	Organizational Leader	Public Relations	Risk Assessment	— Statistics
	Emporia State	88	•			••	••			••	•	•		•		
	JCCC										••					
	КСКСС	••														
-	K-State	00	88			88	•		•			22		•		
	K-State Olathe															
	Lincoln	••	•								••	••				
	MCC	•													••	
PUBLIC	MUS&T		•	••	•	••				•						
PU	Missouri Western					••		••								
	Northwest MO State	••				••										
	Northwest MO State-KC															
	Pitt State		88									88				
	UCM	•	••		88	••		••	••	•	•	88				
	Univ. of KS	••			•	88	28				••		••	88		
	Univ. of KS Edwards	••	•													
	Univ. of KS Med. Ctr.															•
	Univ. of MO Columbia				••					•	•	88		-88		8
	UMKC	••										66				
	Avila	••						••		•	•					
	Baker	••	88										88			
	Benedictine	••	•			••		••	•	•	•					
	Columbia CollKC															
⊨	Donnelly		••													
S	KCAI															
NO.	Mid-America Nazarene	•	86								••	••	•			
Ž	Ottawa															
PRIVATE NON-PROFIT	Park	56	•			•										
P.	Park-KC															
	Rockhurst			•	••	•			•				50			
	St. Mary													0		
	Webster Western															
}	Governors	00														
	Wm. Jewell															
FE	DeVry	55														
FOR-PROFIT	Grantham National															
요	American															

Industry Insights

- About two-thirds of life science companies focus on human health, 25% are animal-focused and 8% are plant-focused. Animal-focused companies have seen the largest increase, up from 21% in 2006.¹
- Talent must be developed for this sector to grow, and in some occupations the number of degrees awarded in the region does not meet demand. For example, only 15 degrees were awarded for chemical technicians during the 2017-2018 academic year, but the demand was more than double that number, at 35 job openings per year.²
- Currently, 25,081 workers are employed in life sciences occupations in the region.³
- The average annual wage in this sector is \$65,400.²
- Total demand (replacement and growth) in this industry is expected to add 12,348 jobs over the next five years.²

Credentials Available by Type



Credentials Available by Institution Type

	Public	Private Non-Profit	For-Profit
Certificate	36	2	4
Associate	32	1	5
Concentration	52	4	2
Minor	63	25	_
Bachelor	125	57	6
Master	87	16	3
Graduate Certificate	33	10	_
Doctorate	74	2	_
Total	502	117	20

Types of Firms:

Agricultural, chemical, pharmaceutical, clinics and labs, informatics

Local Examples:

Bayer, Boehringer Ingelheim, Ceva, MRI Global, TEVA Pharmaceuticals

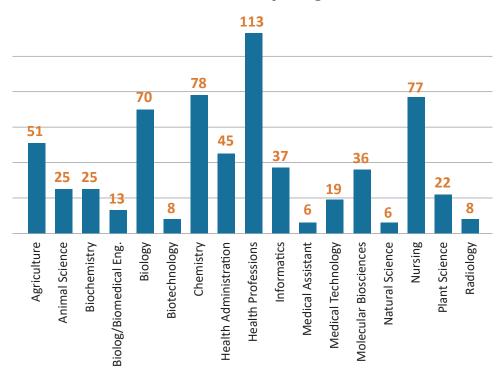
Total Employment: 25,081 jobs

¹ BioNexus KC Regional Life Sciences Industry Census 2018

² Jobs EQ

³ Total from Jobs EQ using occupations defined by BioNexus KC

Life Sciences Credentials Available by Program





Life Sciences Credentials
by Program and Type

	So.	155	15	Min	Bach	To So	J. G.	000
Agriculture	3		5	18	13	8	2	2
Animal Science	3	1	1	4	4	7	2	3
Biochemistry			3	1	15	2		4
Biological/Biomedical Engineering	1			1	5	3		3
Biology		4	6	18	31	8		3
Biotechnology	2		2	1	1	1	1	
Chemistry		6	8	21	28	9		6
Health Administration		1	7	5	8	13	10	1
Health Professions	9	13	8	5	24	20	13	21
Informatics	5	5	4	5	6	5	4	3
Medical Assistant	5	1						
Medical Technology	1		3		11	3		1
Molecular Biosciences			5	2	9	8	1	11
Natural Science				1	4	1		
Nursing	8	5	1	2	23	14	10	14
Plant Science	1	1	5	4	3	4		4
Radiology	4	1			3			

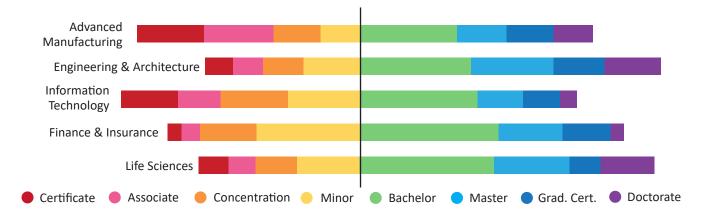
Lif	Life Sciences Programs by Institution											+	ogy					
		Agriculture	Animal Science	Biochemistry	Biolog./Biomed. Engineering	Biology	Biotechnology	Chemistry	Health Admin.	Health Professions	 Informatics	Medical Assistant	Medical Technology	Molecular Biosciences	Natural Science	Nursing	Plant Science	Radiology
	Emporia State			••		88		88										
	JCCC															••		
	ксксс		•							••		•				••		
	ксимв																	
	K-State K-State Olathe	***	36	•	•	88	•	\$		88				••		•	88	
	Lincoln					00		••								00		
	МСС		00							00						00		
O	MUS&T					•		88										
PUBLIC	Missouri Western					•			00		88					00		
ଅ	NW MO State	•	••			•												
	NW MO State-KC									•								
	Pitt State					•		•						••		00		
	UCM	-				•		•					••			00		
	Univ. of KS			•	•	•		8		•				88			••	
	Univ. of KS Edwards						••		••	•								
	Univ. of KS Med Ctr								•	88						88		
	Univ. of MO Columbia	60	88	•		00		•	1		•							
	UMKC					8												
	Avila					••			00									
	Baker					••			•							00		
	Benedictine					••												
	Columbia CollKC																	
분	Donnelly															••		
PRIVATE NON-PROFIT	Mid-America Nazarene					••			••							00		
Š	Ottawa																	
믿	Park																	
₹	Park-KC								00									
R	Rockhurst					•				66								
	St. Mary															00		
	Webster Western								00				_			00		
	Governors																	
	Wm. Jewell								0									
분	DeVry																	
PRO	Grantham National															00		
FOR-PROFIT	American																	
	Pinnacle																	
24	Certificate	Asso	ciate		Conce	ntratio	on 🥚	Min			helor		Maste			. Cert.		Doctora

Combined Inventory Results

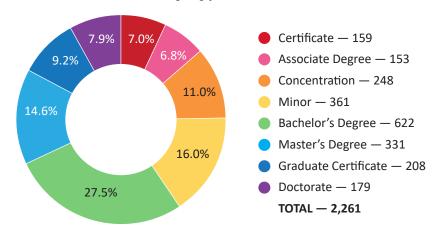
Industry Insights

Comparing the five sectors illustrates that some have more entry-level opportunities than others. By increasing the availability of shorter-term, stackable credentials, businesses and educational institutions can provide more lower-threshold, career-entry opportunities that allow students to begin working in their chosen fields while they continue their education.

The chart below illustrates the balance of entry-level educational opportunities versus bachelor's degrees and above for each sector.



Credentials Available by Type



Credentials Available by Sector by Institution Type

	Advanced Manufacturing	Engineering & Architecture	Information Technology	Finance & Insurance	Life Sciences
Public	170	398	233	371	502
Private	6	34	76	240	117
For-Profit	8	9	35	42	20

Credentials Available by Type, Sector and Institution

Emporia State JCCC KCKCC KCUMB K-State K-State Olathe Lincoln University MCC	3 4 4 1 4 3 2	1 2 4 6 4 4	98	7993	6264
KCKCC KCUMB K-State K-State Olathe Lincoln University	4			23	13 7
KCUMB K-State K-State Olathe Lincoln University		4 4	78		
K-State K-State Olathe Lincoln University	1432			25	411
K-State Olathe Lincoln University	1432				1
Lincoln University		3 11 13 9	221332	21617764	1122314411
,		1		2	21
MCC		1221	111	541	1242
IVICC	16 19	1714	98	14	611
MUS&T	2336166	12 10 15 21 22 23	1533162	1242131	4421
Missouri Western	1113	1231	25421	871	1110393
NW Mo State		11	21451	6 7	11122
NW Mo State-KC			1	12	1
Pitt State University	1211761	112964	8631	1101032	15631
Univ. of Central Mo	12411	2372	17610621	4 11 13 10 1	1104117
Univ of Kansas	3433	1 4 2 15 17 1511	118332	2713653	3521112113
Univ of Ks-Edwards	12	1366	112	11243	1131
Univ of Ks-Med Ctr				1	5 5 9 10 15
Univ of Mo-Columbia	12433	79109110	4 5 4 2	1157141187	2 1 12 13 23 20 5 20
UMKC	222	37442	1224114	655714	7 4 7 6 11 13
Avila		1	2332	6826	251
Baker		12	223	1571022	131011
Benedictine	4	18	11	781	27
Columbia CollKC			1	11121	1
Donnelly			111	112	11
KC Art Institute			5	1	
Mid-Am Nazarene		12	1142	1752	11522
Ottawa		1	1	8684	1231
Park		1121	217321	1911613	4312
Park-KC		1	2	2412	11
Rockhurst	2	2 5	11	287936	128231
St. Mary			321	2251	4711
Webster		1	11	11383	131
Western Governors			73	44	34
William Jewell		12	1	167	2 4
DeVry	111	111	2110421	16435	1121
Grantham	12	1121	3242	2143	1123
National American	1	1	111	553	3 3
Pinnacle	1		1		2
	Missouri Western NW Mo State NW Mo State-KC Pitt State University Univ. of Central Mo Univ of Kansas Univ of Ks-Edwards Univ of Mo-Columbia UMKC Avila Baker Benedictine Columbia CollKC Donnelly KC Art Institute Mid-Am Nazarene Ottawa Park Park-KC Rockhurst St. Mary Webster Western Governors William Jewell DeVry Grantham National American Pinnacle	MUS&T Missouri Western NW Mo State NW Mo State-KC Pitt State University Univ. of Central Mo Univ of Kansas Univ of Ks-Edwards Univ of Mo-Columbia UMKC Avila Baker Benedictine Columbia CollKC Donnelly KC Art Institute Mid-Am Nazarene Ottawa Park Park-KC Rockhurst St. Mary Webster Western Governors William Jewell DeVry Grantham Pinnacle 1 1 1 3 1 2 1 1 7 6 1 1 2 4 1 1 1 2 4 1 1 1 3 3 3 4 3 3	MUS&T Missouri Western NW Mo State NW Mo State-KC Pitt State University Univ. of Central Mo Univ of Kansas Univ of Ks-Edwards Univ of Ks-Edwards Univ of Mo-Columbia Baker Benedictine Columbia CollKC Donnelly KC Art Institute Mid-Am Nazarene Ottawa Park Park-KC Rockhurst St. Mary Webster Western Governors William Jewell DeVry Grantham National American Pinnacle 1 1 1 1 3 1 2 3 1 1 1 2 3 1 1 1 2 3 7 2 1 1 3 6 6 1 2 1 3 6 6 1 2 1 0 15 21 22 2 3 7 4 4 2 1 3 3 7 9 10 9 1 10 1 1 2 3 7 2 1 3 6 6 1 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 1 2 3 7 2 1 3 6 6 1 2 1 1 2 3 1 1 3 6 6 1 2 1 1 2 1 1 3 6 6 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MUS&T Missouri Western NW Mo State NW Mo State-KC Pitt State University Univ. of Central Mo Univ of Kansas Univ of Ks-Edwards Univ of Ks-Edwards Univ of Mo-Columbia Baker Benedictine Columbia CollKC Donnelly KC Art Institute Mid-Am Nazarene Ottawa Park Park-KC Rockhurst St. Mary Webster Western Governors William Jewell DeVry Grantham 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MUS&T Missouri Western NW Mo State NW Mo State-KC Pitt State University Univ. of Central Mo Univ of Kansas Univ of Ks-Edwards Univ of Ks-Edwards Univ of Mc-Columbia Univ of Mc-Columbia Baker Benedictine Columbia CollKC Donnelly KC Art Institute Mid-Am Nazarene Ottawa Park Columbia Park Columbia Coltawa Park Coltawa Col

Future Work and Next Steps

Goals for GradForce KC and MARC's Workforce Development Program include:

- Aligning education outputs with employer needs in new and emerging areas.
- Supporting the development of alternative career pathways for non-degreed workers, such as industry-recognized certificates, stackable credentials and micro-credentials.
- Increasing opportunities and access for disadvantaged candidates to be successful in the workforce.
- Engaging in public policy to support education and workforce development.

In 2020, MARC will also undertake a human-centered design process in preparation for the next Education Asset Inventory. Through this process we will engage students, educators, counselors and higher education administrators to explore ways to improve this report. For more information or to get involved in these discussions, please contact Erika Garcia Reyes at egarcia@marc.org.



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