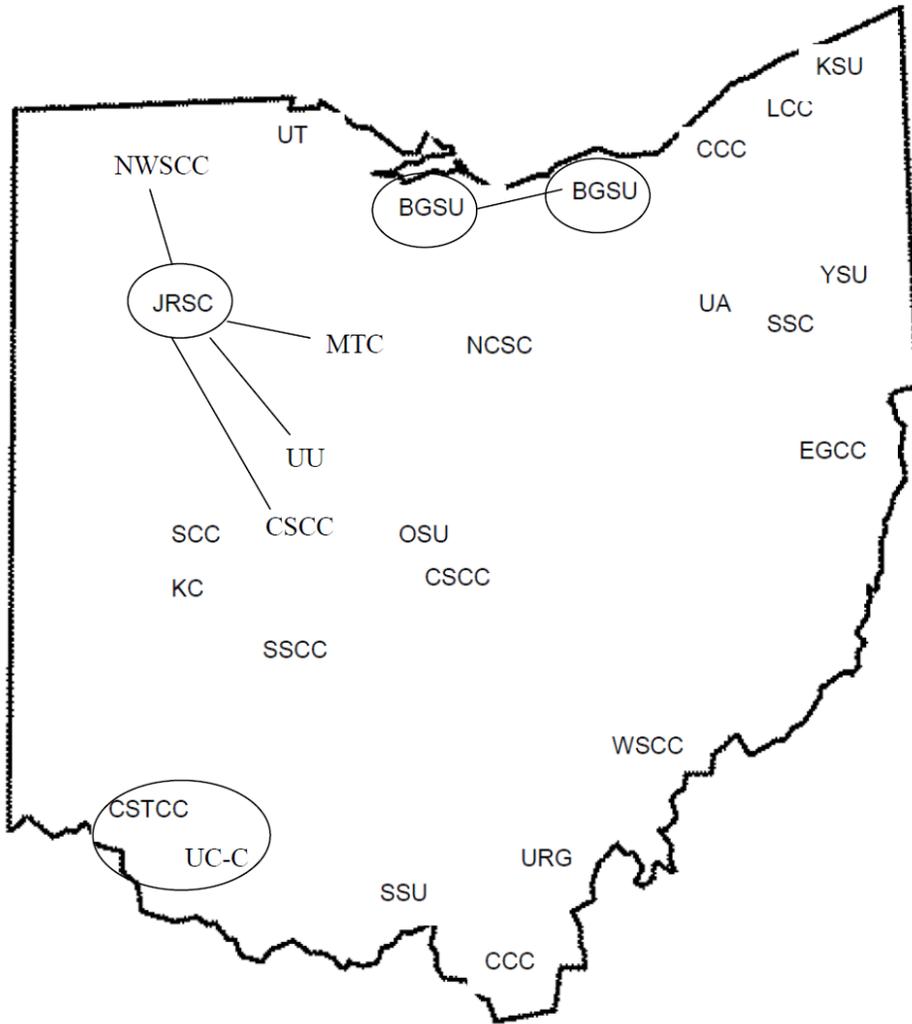


# The State of Respiratory Therapy Education In Ohio: 2012-2014



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## **Introduction**

This is the fifth report on the state of Respiratory Therapy education in Ohio, a series which began in 2004. With implementation on January 1, 2015 of the requirement of earning the Registered Respiratory Therapist (RRT) credential to obtain a license as a Respiratory Care Professional (RCP) in Ohio, the purposes of this report are to provide baseline data for 3 year period 2012-2014 prior to the 2015 RRT licensure requirement, to summarize Commission on Accreditation for Respiratory Care (CoARC) program status, productivity, and outcomes, and to summarize National Board for Respiratory Care (NBRC) examination results for 2012-14.

## **Methods**

During August 2015, the executive director of the Ohio Respiratory Care Board (ORCB) requested copies of the 2015 CoARC Reports of Current Status and NBRC Annual School Summary Reports from the program directors of the respiratory care educational programs in Ohio identified by CoARC.

The CoARC Reports of Current Status provided student data, including estimated number of applicants, maximum enrollment, actual enrollment, number of students lost to attrition, and the percent attrition rate; graduate data, including number of graduates, percents of job placements, overall employer and graduate satisfaction, and on-time graduation. The CoARC Reports also provided percent of graduate success earning the Certified Respiratory Therapist (CRT) and RRT credentials. CoARC defines success as the number of graduates who earned the credential compared to the number graduating. The NBRC Annual School Summary Reports provided percent pass rates of graduates who attempted the CRT, Therapist Multiple Choice Examination (TMC), Written Registry Examination (WRE), and Clinical Simulation Examination (CSE) examinations.

All data collected for this report was for the 3-year cohort of graduating classes: 2012, 2013, and 2014. Mean annual values were calculated for applicants, capacity, enrollments, attrition, and graduates. Percent attrition was calculated by dividing the number of students lost to attrition by the number of students enrolled. Percent job placement, percent CRT and RRT success, percent employer and graduate satisfaction, and percent on-time graduation were recorded from the 2012-14 CoARC outcomes. From the NBRC Reports the total number of graduates who passed each examination was divided by the total number of graduates tested for the graduation years 2012-14.

## **Results**

There are 22 CoARC-recognized respiratory therapy educational programs in Ohio. Table 1 lists the sponsoring institutions and locations of the programs. On the title page, figure 1 shows geographical locations of the programs connected to their additional campuses.

<b>Sponsoring Institution</b>		<b>Location</b>	<b>CoARC Status</b>
Bowling Green State University – Firelands	BGSU	Huron	Continuing Accreditation
Bowling Green State University- Lorain CC	BGSU	Elyria	Continuing Accreditation
Cincinnati State Tech Community College – University of Cincinnati - Clermont	CSTCC UC-C	Cincinnati Batavia	Continuing Accreditation
Collins Career Center - Mountwest Community & Technical College	CCC	Chesapeake Huntington, WV	Continuing Accreditation
Columbus State Community College	CSCC	Columbus	Continuing Accreditation
Cuyahoga Community College	CCC	Parma	Continuing Accreditation
Eastern Gateway Community College	EGCC	Steubenville	Continuing Accreditation
James A. Rhodes State College	JRSC	Lima	Continuing Accreditation
Kent State University - Ashtabula	KSU	Ashtabula	Continuing Accreditation
Kettering College	KC	Kettering	Continuing Accreditation
Lakeland Community College	LCC	Kirtland	Continuing Accreditation
North Central State College	NCSC	Mansfield	Continuing Accreditation
Shawnee State University	SSU	Portsmouth	Continuing Accreditation
Sinclair Community College	SCC	Dayton	Continuing Accreditation
Southern State Community College	SSCC	Washington CH	Continuing Accreditation
Stark State College of Technology	SSCT	Canton	Continuing Accreditation
The Ohio State University	OSU	Columbus	Continuing Accreditation
University of Akron	UA	Akron	Continuing Accreditation
University of Rio Grande/RGCC	URG	Rio Grande	Continuing Accreditation
University of Toledo	UT	Toledo	Continuing Accreditation
Washington State Community College	WSCC	Marietta	Continuing Accreditation
Youngstown State University	YSU	Youngstown	Continuing Accreditation

Table 1. The CoARC-recognized Respiratory Care Educational Programs in Ohio.

Bowling Green State University sponsors a primary program at the Firelands campus in Sandusky and a satellite program at the Lorain Community College campus in Elyria; each has a unique CoARC identification number. Cincinnati State Technical and Community College and the University of Cincinnati – Clermont campus in Batavia share a CoARC accreditation number. James A. Rhodes State College is a member of the Northwest Ohio Allied Health Education Consortium and uses its CoARC identification number for programs at James A. Rhodes State College in Lima and at Northwest State Community College in Archbold, Clark State Community College in Springfield, Urbana University in Urbana, and Marion Technical College in Marion.

Since the 2010 ORCB report, Miami Jacobs College has discontinued their respiratory therapy program; Collins Career Center changed academic sponsors from Marshall University to Mountwest Community and Technical College, and Kent State University-Ashtabula initiated a program. All 22 programs have “Continuing Accreditation” status by CoARC. The results of student, graduate, and examination data are depicted in figures 2-16 appended to this report.

## Summary and Conclusions

CoARC is the agency authorized to approve respiratory therapy educational programs by the ORCB. CoARC has established “Outcomes Assessment Thresholds,” and these thresholds define the criteria for initial and continuing accreditation. CoARC considers the 3-year and 5-year graduate cohorts valid indicators of program outcomes and quality. These thresholds address student attrition, job placement, percentages of graduates passing the NBRC CRT credentialing examination, and graduate and employer satisfaction survey results. CoARC thresholds are:

- Attrition: no more than 40% of students initially enrolled but do not graduate due to personal or academic reasons.
- Job Placement: no less than 70% graduates in respiratory therapy-related jobs within 3 months of graduation.
- CRT Success: no less than 80% of graduates pass the CRT examination,
- Overall Employer Satisfaction: no less than 80% satisfied on post graduate surveys
- Overall Graduate Satisfaction: no less than 80% satisfied on post graduate surveys

### Ohio Program CoARC Outcomes Summary

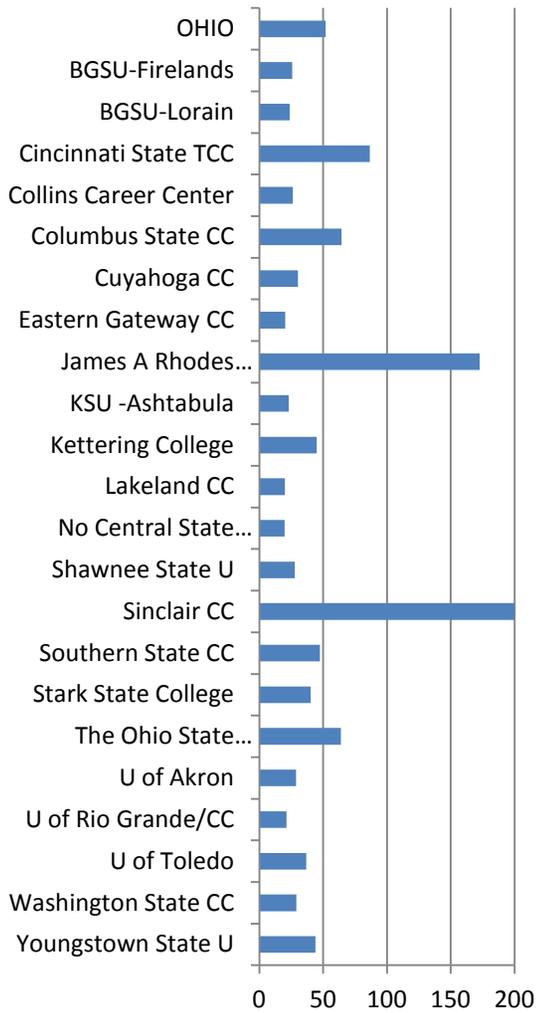
- The average attrition rate of Ohio programs for 201-14 was 24% (range 5% - 36%); all Ohio programs met the CoARC attrition threshold.
- The average job placement rate of Ohio programs for 2012-14 was 84% (range 69% - 100%); 2 Ohio programs failed to meet the CoARC placement threshold.
- The average on-time graduation rate of Ohio programs for 2012-14 was 91% (range 79% - 100%). CoARC does not have a threshold for on-time graduation.
- The average CRT success rate of Ohio programs for 2012-14 was 94% (range 81% - 100%); all Ohio programs met the CoARC CRT success threshold.
- The average RRT success rate of Ohio programs for 2012-14 was 75% (range 50% - 100%); CoARC does not have a threshold for RRT Success.
- The average overall employer satisfaction of Ohio programs for 2012-14 was 98% and the graduate satisfaction was 100%; all Ohio programs met these CoARC thresholds.

### Ohio Program NBRC Summary

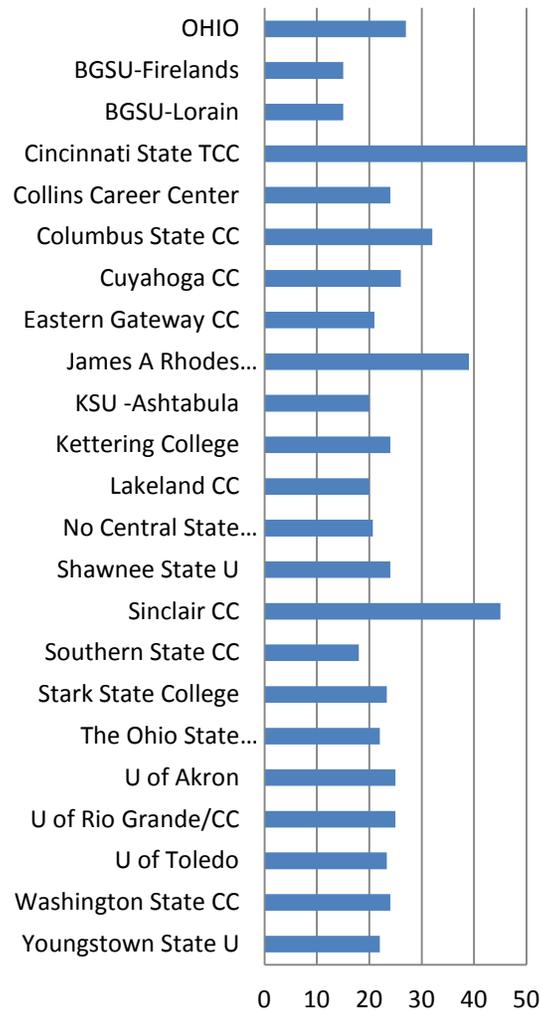
CRT and RRT percent success results that are less than 100% include those graduates not participating in the examination process and those not passing the examinations. The NBRC Summary reports only include those tested. Passing both WRE and CSE earns the RRT credential.

- The average CRT pass rate of Ohio programs for 2012-14 was 96% (range 83% - 100%).
- The average WRE pass rate of Ohio programs for 2012-14 was 90% (range 76% -100%).
- The average CSE pass rate of Ohio programs for 2012-14 was 90% (range 68% -100%).

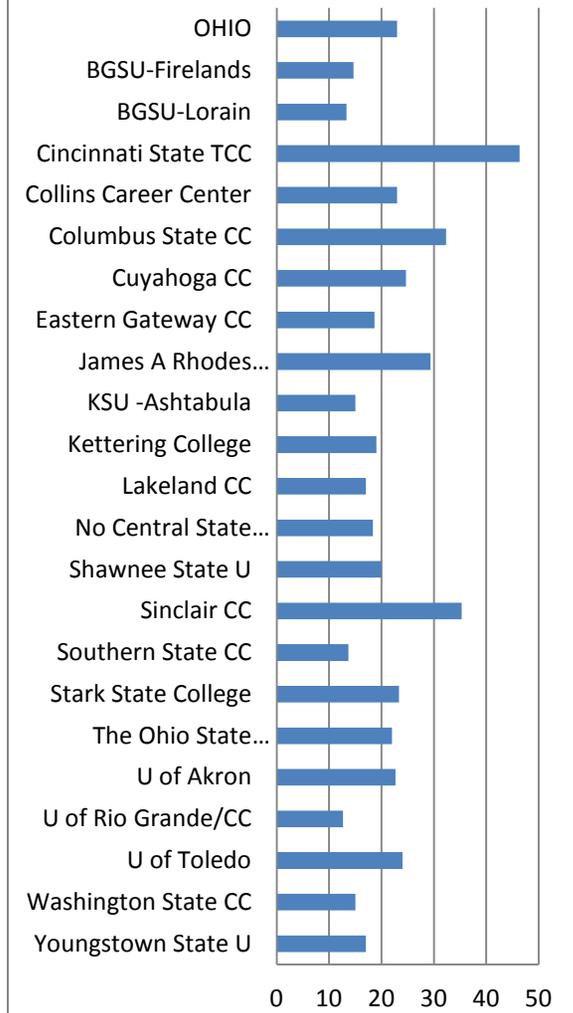
## 2012-14 Estimated Annual Applicants



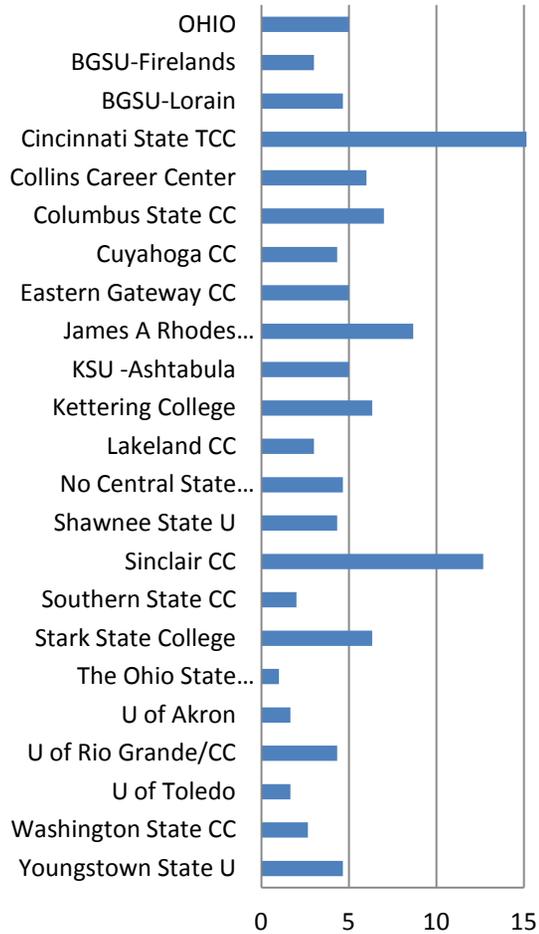
## 2012-14 Maximum Annual Students



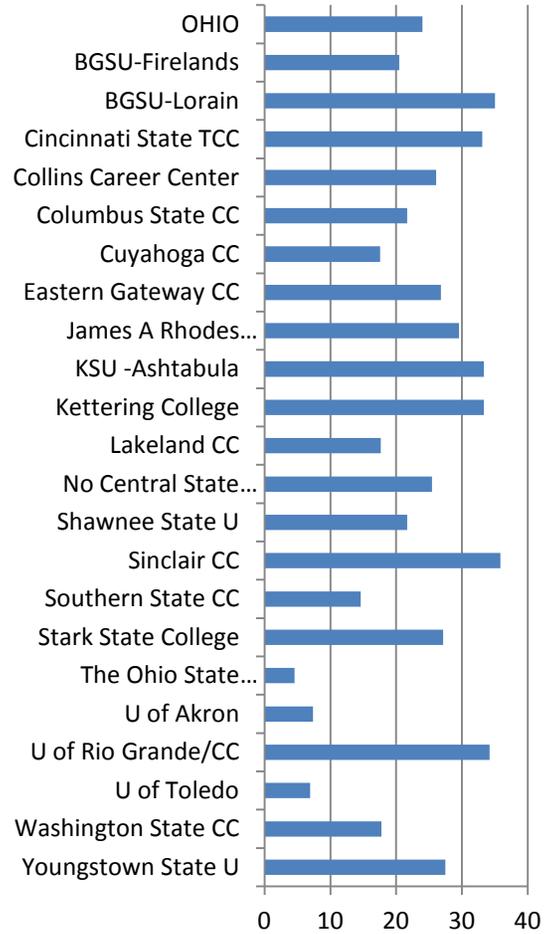
## 2012-14 Annual Enrollment



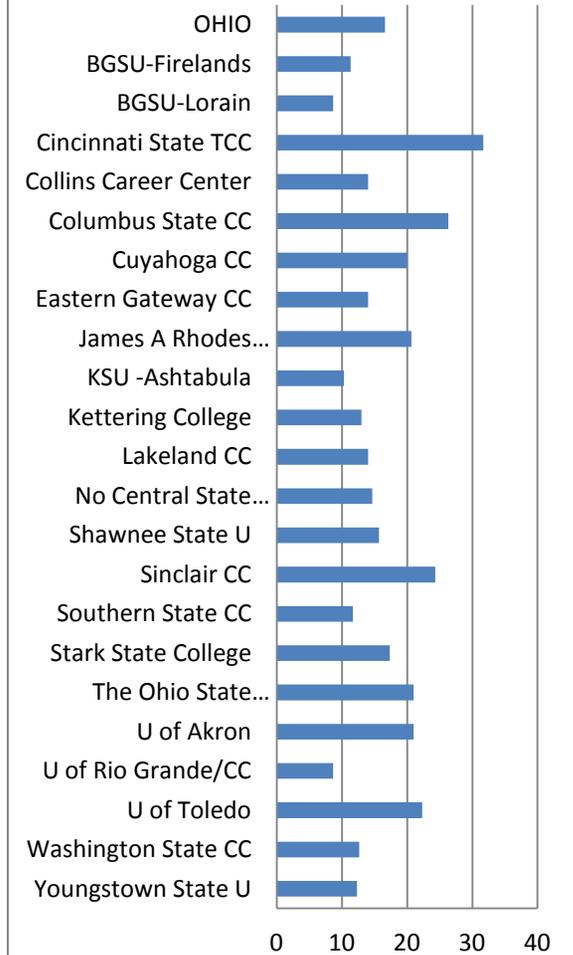
## 2012-14 Annual Attrition



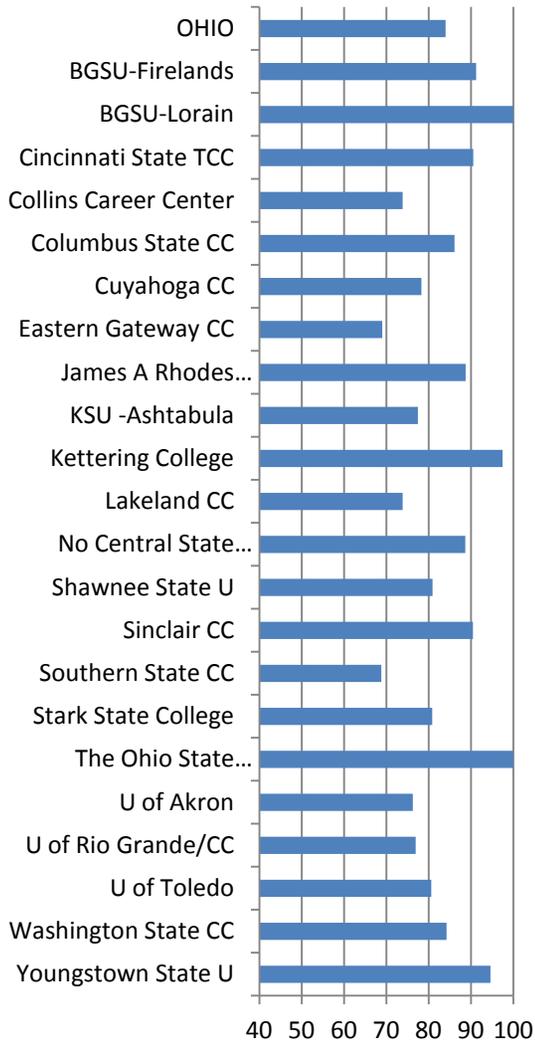
## 2012-14 Outcome: Percent Attrition



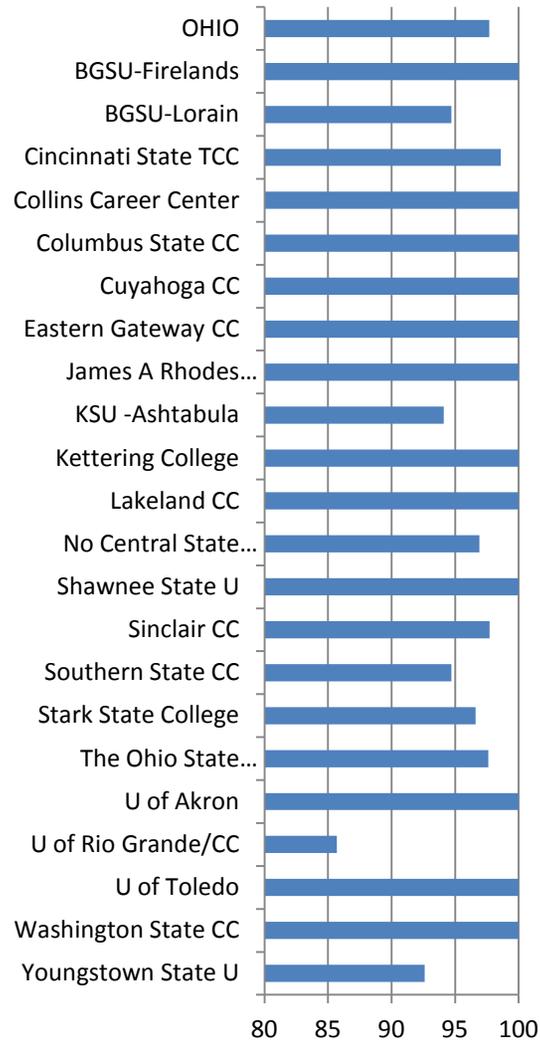
## 2012-14 Annual Graduates



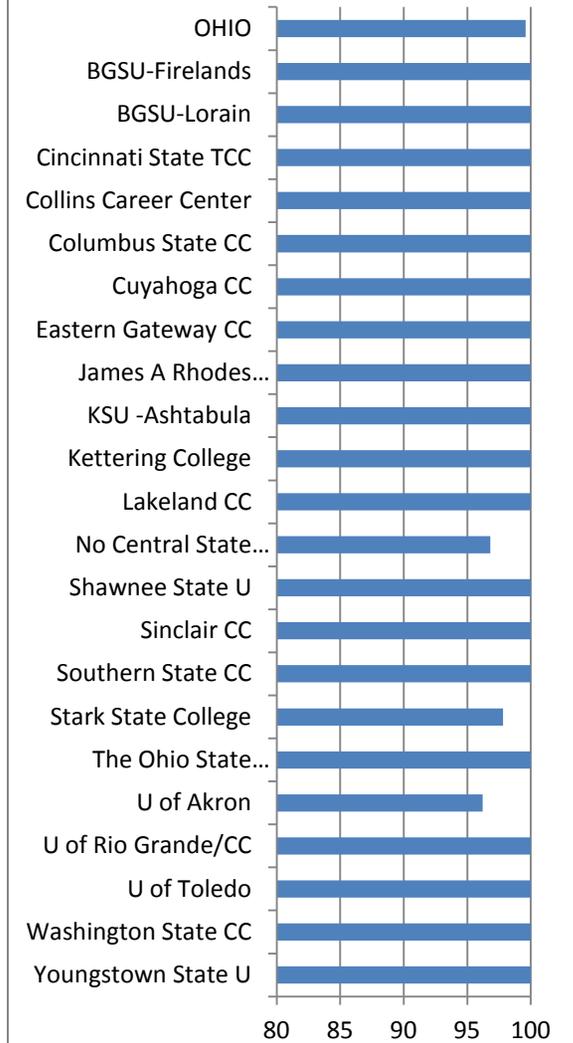
## 2012-14 Outcome: Placement



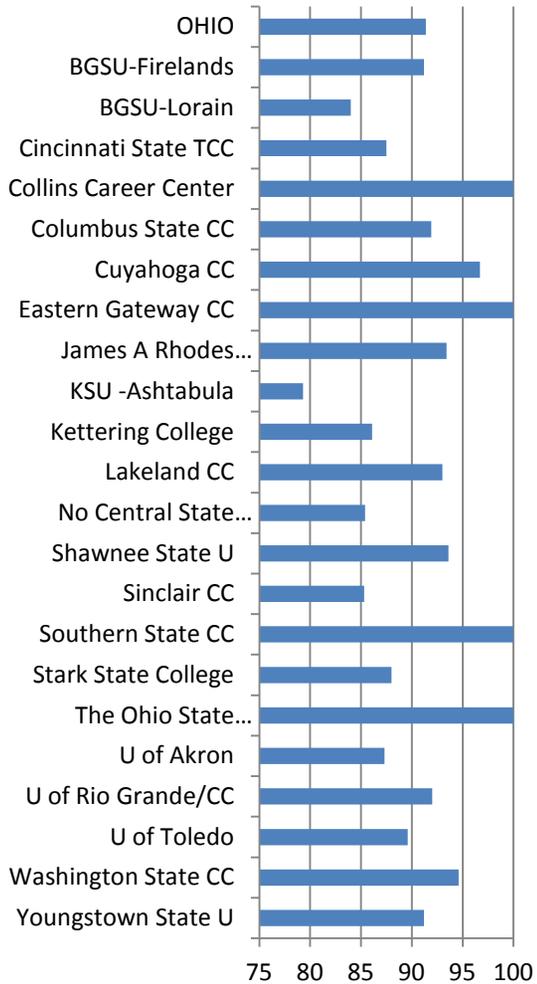
## 2012-14 Outcome: Employer Satisfaction



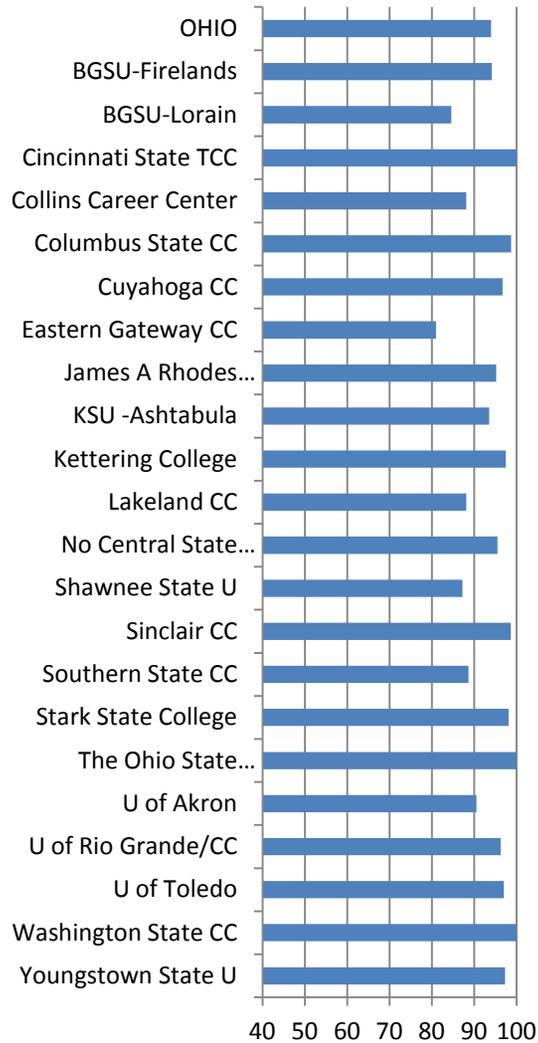
## 2012-14 Outcome: Graduate Satisfaction



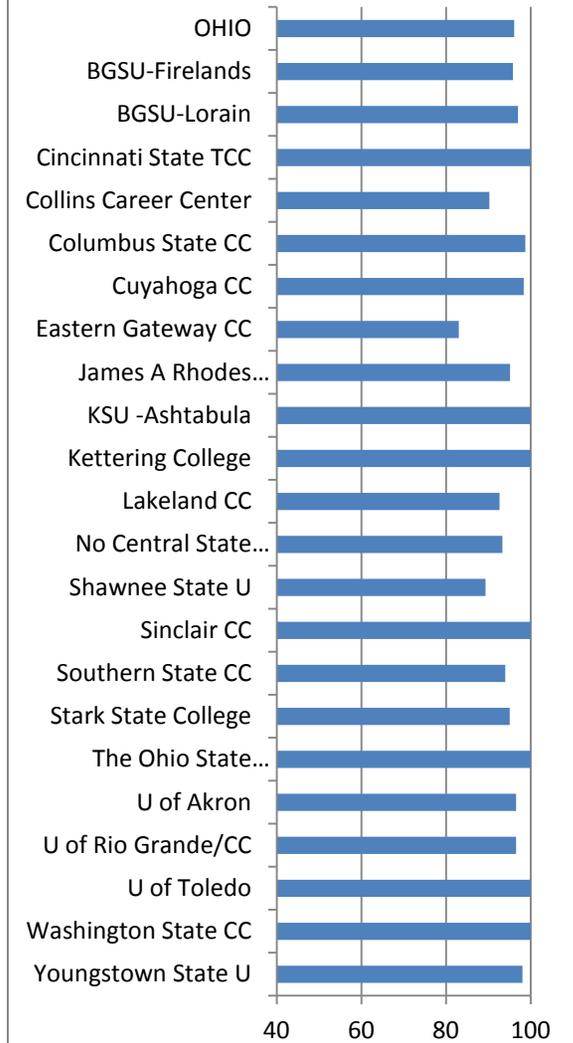
## 2012-14 Outcome: On-Time Graduation Rate



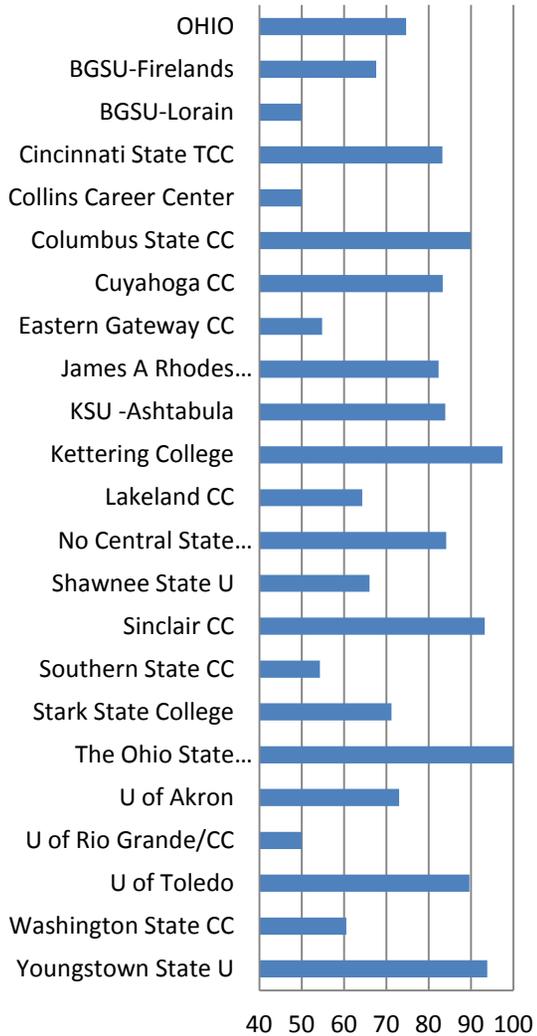
## 2012-14 Outcome: CRT % Success



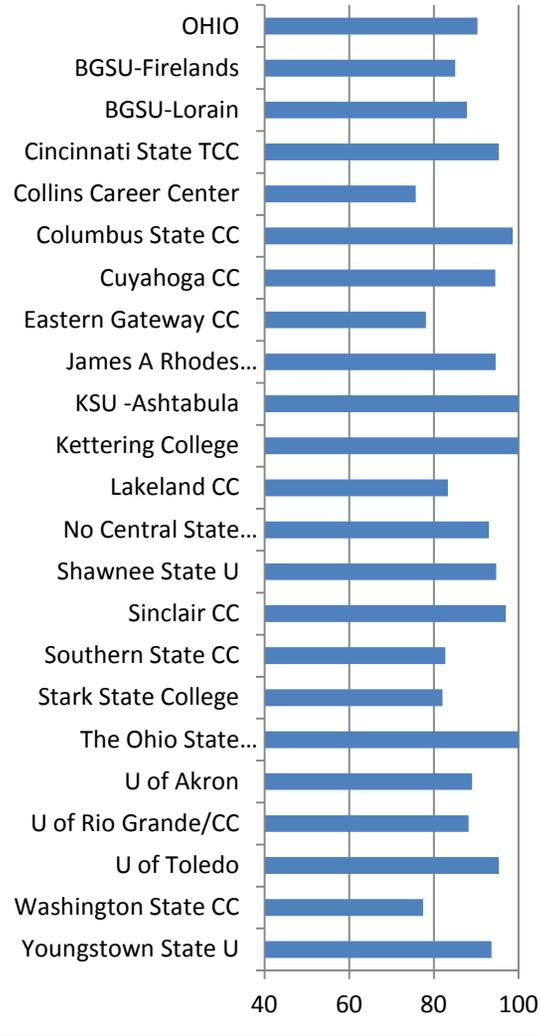
## 2012-14 NBRC CRT % Passing



## 2012-14 Outcome: RRT % Success



## 2012-14 NBRC WRE % Passing



## 2012-14 NBRC CSE % Passing

