



*Establishing Useful and Effective Integrated
Data Systems and Partnerships at the State Level*



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North Carolina Department of Commerce***



Common Follow-up System

Overview and Vision



Purpose

To provide information on the educational and employment outcomes of participants in publicly supported educational, employment and training programs for use in planning, policy-making, program evaluation, resource allocation and career planning.

- Started as a voluntary effort in the early among a group of state agencies interested in following up on program participants
 - Agencies agreed to voluntarily share information
 - Agencies chose the former ESC as the system operator.
- In 1995, the CFS was codified under state law.
- North Carolina General Statute Chapter 96 was amended to:
 - establish the CFS by statute;
 - define system participation;
 - establish operational responsibility;
 - establish performance and evaluative responsibility;
 - mandate data integrity and confidentiality; and
 - outline reporting and schedules.



Common Follow-up System

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- In 2011, NC Commerce and NC ESC merged , the CFS was transferred to NC Commerce's Labor and Economic Analysis Division (LEAD)
- Session Law 2012-131 modified the G.S. and required Commerce to strengthen the CFS:
 - Track performance of participants of the state's job training, education and placement programs
 - Evaluate the impact of programs
 - Report to the General Assembly on Evaluation Findings
 - Report to the General Assembly on System Operations
 - Work with the NC Works Commission to develop performance measures across workforce programs;
 - Provide for the automated collection, organization, dissemination, and analysis of data from programs;
 - Maintain confidentiality of information;
- Session Law 2014-100 required Commerce to develop a plan for the transfer of CFS to the Government Data Analytics Center (GDAC).



NC Department of Information Technology

GOVERNMENT DATA ANALYTICS CENTER

Data Driven Government

Data Integration

Reporting

Analytics

Master Data Management

Data Governance

Management

Hierarchy

Security

Data Standards

Metadata

Data Quality

Common Identifier

Business Process

Leadership

Stewardship

Accessibility

- Business Intelligence - The process of **collecting, organizing, sharing, and analyzing data** through integrated data management, ... **to make more informed decisions.**
- All State agency business intelligence requirements, including any **planning or development** efforts associated with creating **BI capability, as well as any master data management** efforts, shall be implemented through GDAC.
- The State Chief Information Officer shall ensure that State agencies use the GDAC for agency business intelligence requirements.

Government Data Analytics Center

Areas of Support

GDAC

Vision

Transform existing data assets into an information utility for the State's policy and operational leaders for their use in making program investment decisions, managing resources, and improving financial programs, budgets, and results.

KEY AREAS

- Criminal Justice
- Child Safety
- Fraud and Compliance
- Healthcare
- Longitudinal Data Systems
- Enterprise Solutions

NC G.S. 43B-1385 (B)(3).

GDAC to manage and coordinate enterprise data integration efforts including:
Individual-level student data and workforce data from all levels of education and the State workforce.

LONGITUDINAL DATA SYSTEMS

- Common Follow-Up System (CFS)
- NC School Works (P-20W)
- Early Childhood (ECIDS)



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Overview and Vision



NC Commerce received a Workforce Data Quality Initiative (WDQI) Grant through the U.S. Department of Labor to help with system enhancement.

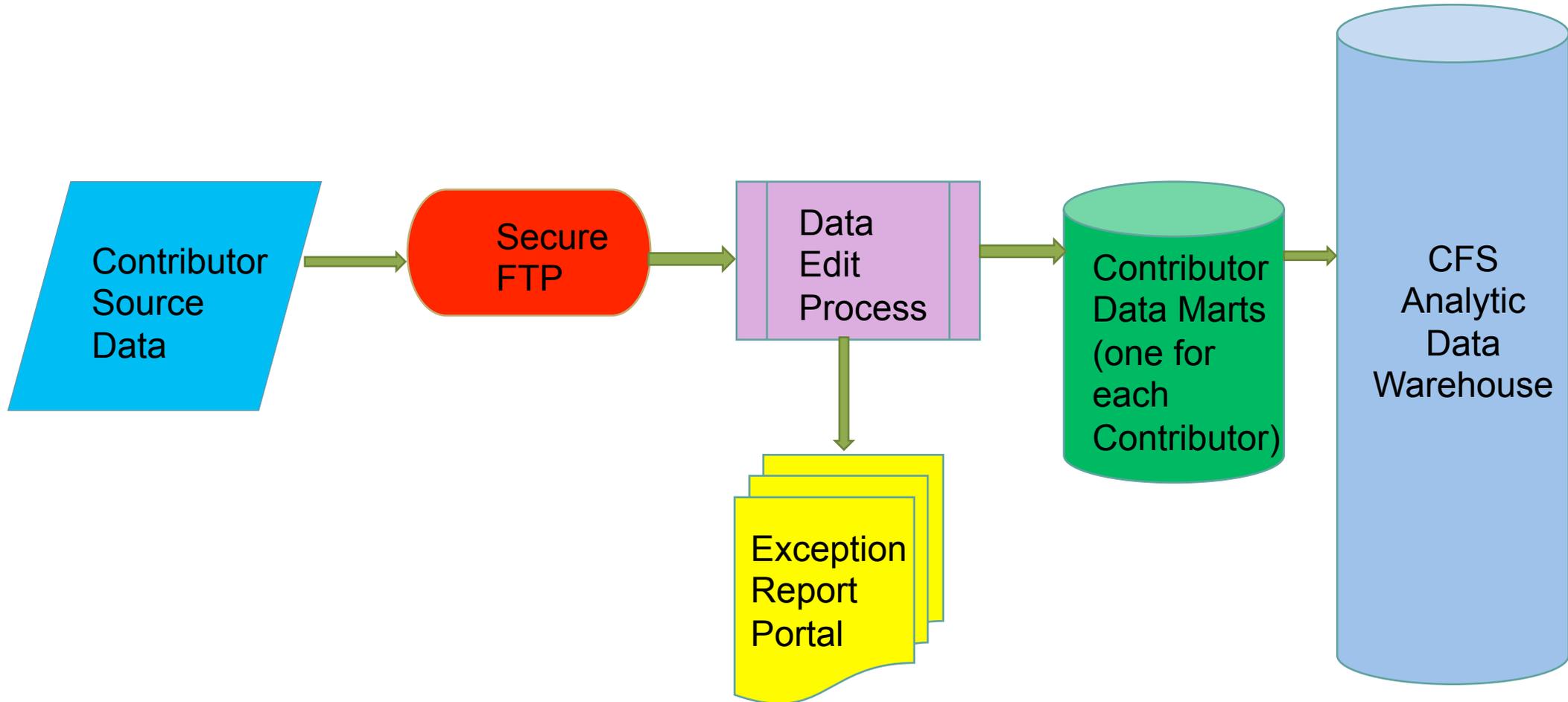
Working with GDAC on Enhancement effort:

Goals of the Enhancement effort:

- Expand System Capacity
- Expanded Data from Existing Contributors and New Contributors
- Enhanced Data Submittal, Editing, Approval and Load Processes
- Improved Data Quality
- Development of Data Dictionary Across All Contributors
- Development of New Relational Data Mart
 - Mini Data Marts for Each Contributor
 - Analytical Data Marts Across Contributors and Sources
- Expand and Enhance Data Analytics
- Design, Develop and Implement Analysis to Provide Policy Makers and Practitioners Better Understanding of Program Performance
- Enhanced System Outputs
- Implementing Technology for Disseminating System Output



Enhanced Common Follow-Up System Data Flow



North Carolina Common Follow-up System Contributors and Partners



Data Contributors and Partners

- NC Department of Commerce
 - LEAD
 - Division of Workforce Solutions
 - Division of Employment Security
- NC Department of Health and Human Services
 - Division of Services for the Blind
 - Division of Social Services
 - Division of Vocational Rehabilitation Services
 - Division of Mental Health, Developmental Disabilities and Substance Abuse
 - Division of Aging and Adult Services
- NC Community College System
- The University of North Carolina General Administration
- NC Department of Public Instruction
- NC Department of Public Safety
 - Division of Adult Correction

North Carolina Common Follow-up System Contributors and Partners



CFS contains extensive longitudinal information across NC's education, training, workforce development and employment.

- **Over 9 Million Individual Program Participants**
- **Over 219 Million Program Records – Begin in mid 1990's**
- **Over 24 Years of Employment and Wage Information**
- **Over 16 Years of Unemployment Insurance Claims Information**

Provides the capacity to link program participation to employment and wage data.
Utilized to develop and enhance information and performance measures for education and workforce development initiatives.

North Carolina Common Follow-up System Contributors and Data Sources



North Carolina Common Follow-up System (CFS) Data Sources and Contributors			
Data Contributors / Programs	Time Periods	Data Contributors / Programs	Time Periods
North Carolina Department of Commerce		North Carolina Community College System	
Division of Employment Security		Curriculum Programs	16 Years
Unemployment Insurance Wage Records	24 Years - Quarterly	Curriculum Course Enrollment Information	In Progress
Unemployment Insurance Claims Information	16 Years - Monthly	Financial Aid Information for Curriculum Students	In Progress
Unemployment Insurance Benefit Payment	16 Years - Monthly	Continuing Education Programs	16 Years
LEAD		Basic Skills Programs	16 Years
Employer Information - QCEW Information	24 Years - Quarterly	University of North Carolina General Administration	
Division of Workforce Solutions		Academic Program Enrollment	16 Years
WARN Notifications	In Progress	Academic Course Enrollment Information	In Progress
WIA/WIOA Adult Program	16 Years	Financial Aid Information	In Progress
WIA/WIOA Dislocated Worker Program	16 Years	North Carolina Department of Health and Human Services	
WIA/WIOA Youth Program	16 Years	Division of Vocational Rehabilitation Services	
NEG Program	13 Years	DVRS - Rehabilitative and Employment Services	16 Years
Wagner Peyser Program	16 Years	Division of Services for the Blind	
Veterans Employment Services	6 Years	DSB - Rehabilitative and Employment Services	16 Years
Agricultural Employment Services	6 Years	Division of Social Services	
Registered Apprenticeship	16 Years	TANF - Work First Program	16 Years
Trade Adjustment Assistance	2 Years	Food & Nutrition Employment Program	15 Years
North Carolina Department of Administration		Community Services Block Grant	In Progress
Commission of Indian Affairs		Division of Mental Health Developmental Disabilities and Substance Abuse	
WIA Native American Programs	Planned	Long Term Vocational Support Services	In Progress
North Carolina Department of Public Instruction		Division of Aging and Adult Services	
High School Academic Programs	16 Years	Senior Community Services Employment	In Progress
Course Enrollment Information	In Progress	North Carolina Department of Public Safety	
High School Career and Technical Education	16 Years of some elements	Division of Adult Correction	
CTE Course Enrollment	In Progress	Offender Services	16 Years

Common Follow-up System System Use

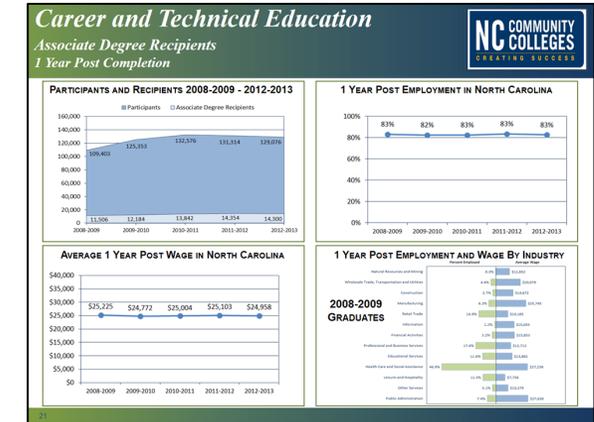
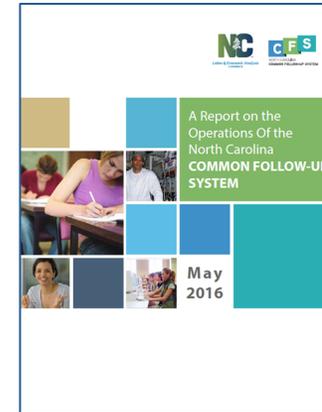


- System Use
 - Analyze and Report on the longitudinal outcomes of education and workforce programs
- Roles and Responsibilities
 - Commerce
 - Collaborate with GDAC to enhance the system
 - Charged under N.C G.S § 96-32 with operating a system
 - Identify programs for inclusion
 - Determining data for inclusion
 - Analyzing and Evaluation
 - Reporting on System Operations and Analytics
 - Contributors
 - Charged under NC G.S. § 96-33 with providing all data and information available to or within the agency or entity's possession requested for input into the CFS and for other official functions as performed by LEAD.
 - Collaborate with LEAD and GDAC to identify data elements
 - Collaborate with LEAD and GDAC to identify table structures
 - Provide documentation and information regarding data
 - Provide data to the System
 - Approve data Submittals

Common Follow-Up System Outputs

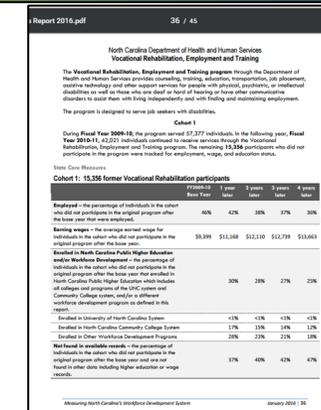
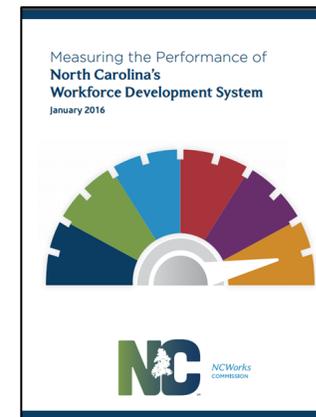
- Reports to the North Carolina General Assembly

- [CFS Evaluation Report](#)
- [CFS Operational Report](#)
- [NCWorks Performance Report](#)



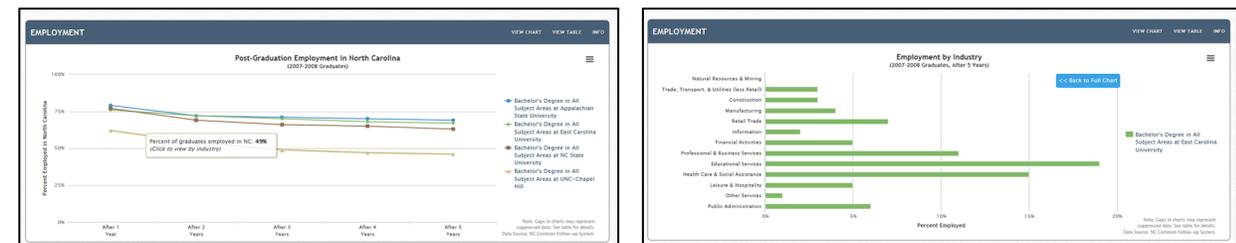
- Development of Information Technology Delivery Systems

- [NC TOWER](#)
- Supply Demand Dashboard (in progress)



- Collaborating with Contributing Agencies

- Reporting Initiatives
- Analytical Capacity
- Data Resources



Common Follow-up System Outputs

Operational Report to the NC General Assembly

**Between July 1, 2005
and June 30, 2015**

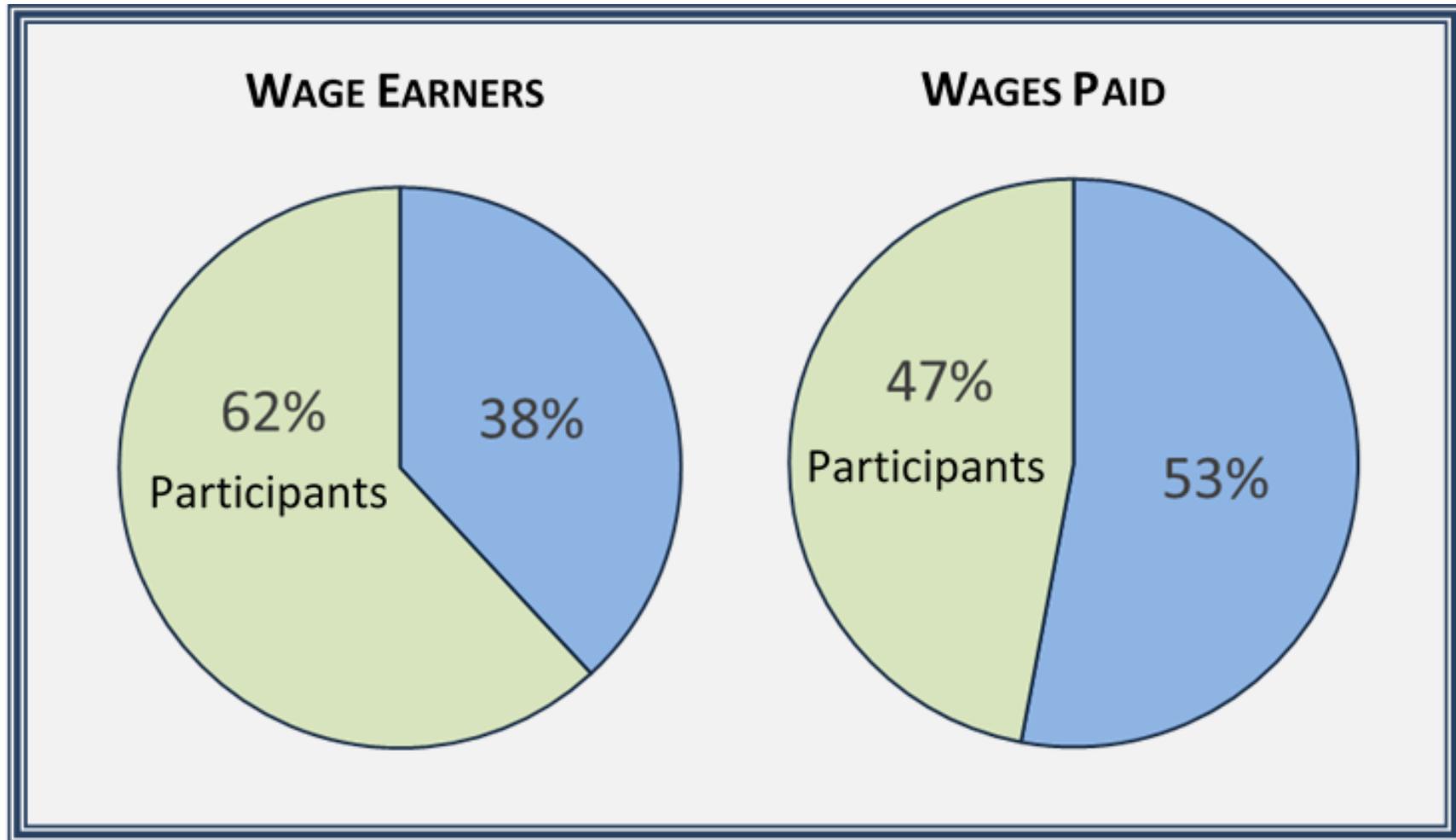
**Over 6.1 million individuals
participated in Education and
Workforce Programs**

**Across 4 Quarters
(2014Q3 – 2015Q2)**

**4.8 Million Individuals
182.8 Billion in UI Wages**

**2.9 Million (62%)
were Education and Workforce
Program Participants**

**85.9 Billion (47%)
Of Total Wages**



Common Follow-up System Outputs

Operational Report to the NC General Assembly

Between July 1, 2005
and June 30, 2015

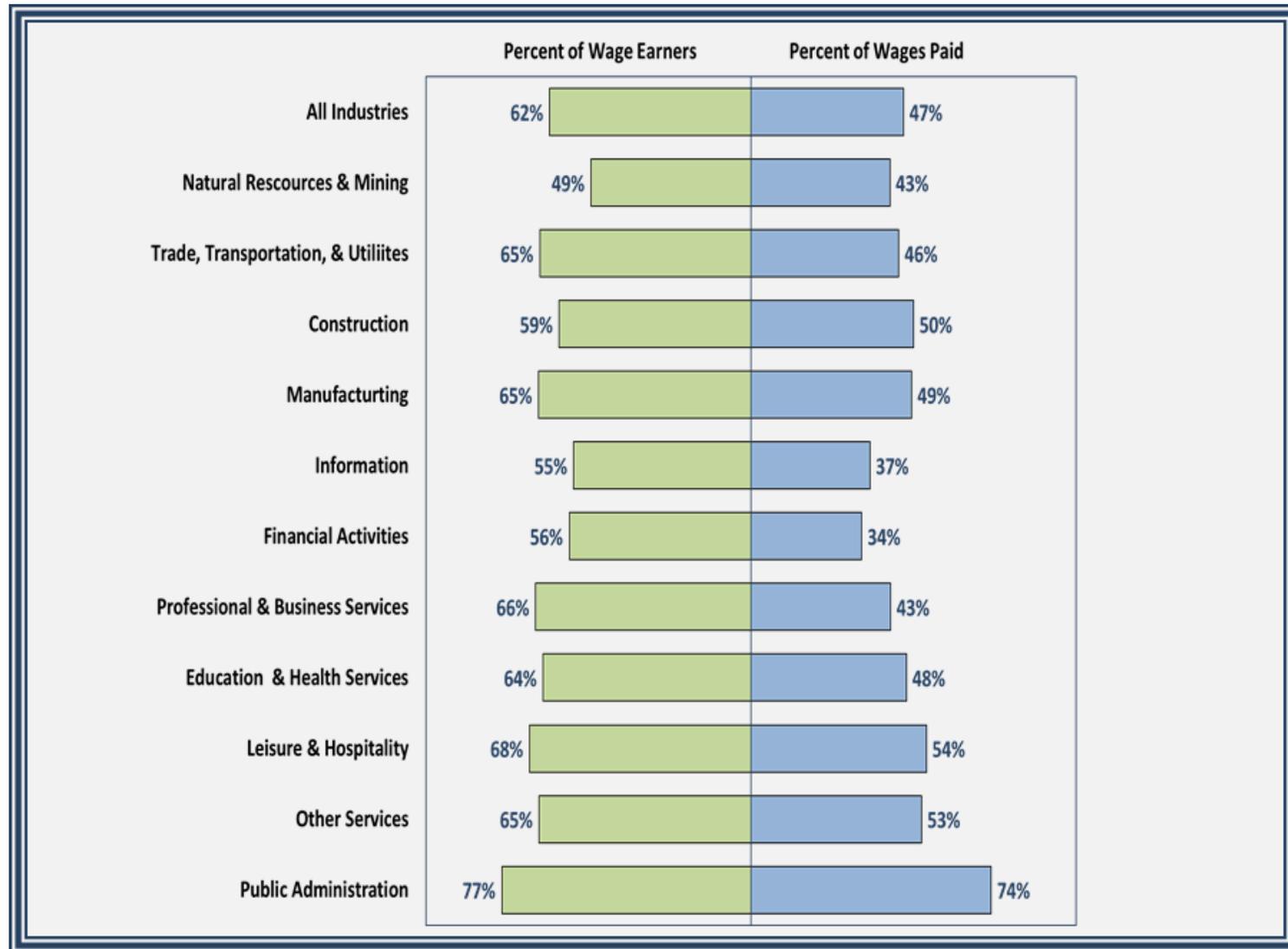
Over 6.1 million individuals
participated in Education and
Workforce Programs

4.8 Million Total Wage Earners

2.9 Million (62%)
were Education and Workforce
Program Participants

182.8 Billion in Total Wages Paid

85.9 Billion (47%)
of Total Wages Paid



Common Follow-up System Outputs

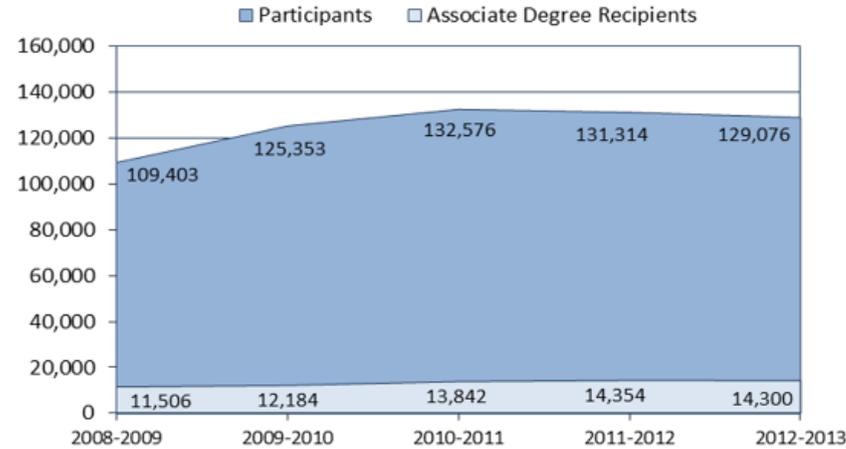
Evaluation Report to the NC General Assembly



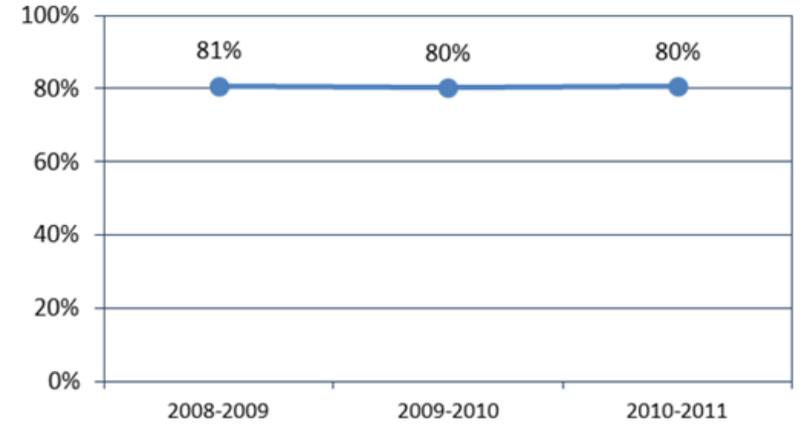
Career and Technical Education

Associate Degree Recipients 3 Year Post Completion

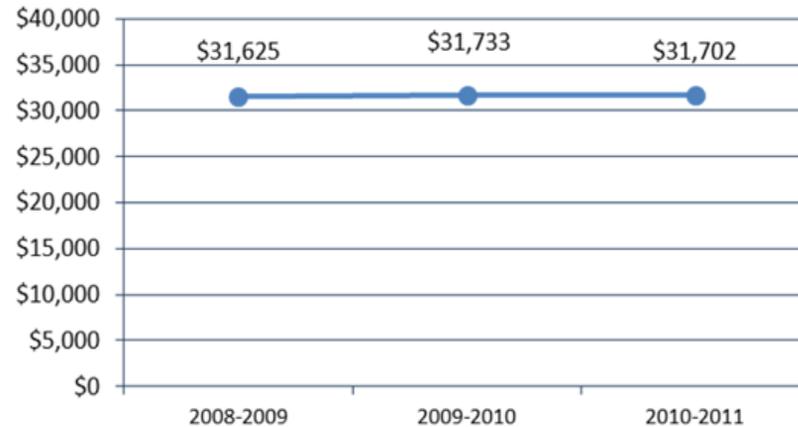
PARTICIPANTS AND RECIPIENTS 2008-2009 - 2012-2013



3 YEARS POST EMPLOYMENT IN NORTH CAROLINA

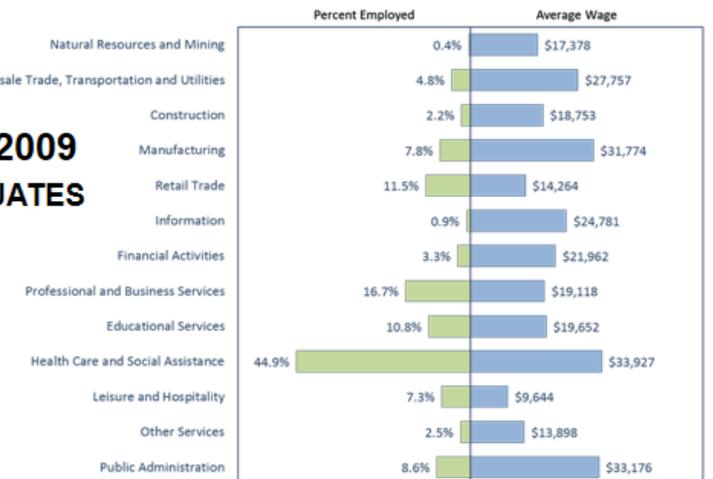


AVERAGE 3 YEAR POST WAGE IN NORTH CAROLINA



3 YEARS POST EMPLOYMENT AND WAGE BY INDUSTRY

2008-2009 GRADUATES



North Carolina Department of Public Instruction

North Carolina High School Graduates

One Year Post High School Enrollment in North Carolina Higher Education and Employment

NC Public High School Graduates 2014	Graduates 92,448		CTE Concentrators 32,362	
One Year Post High School Follow-up				
Enrolled in UNC	22,963	24.8%	6,524	20.2%
Enrolled in NCCCS	31,951	34.6%	13,447	41.6%
Enrolled in UNC or NCCCS (NC Public Higher Education)	51,529	55.7%	18,822	58.2%
Employed in North Carolina	62,783	67.9%	22,738	70.3%
Enrolled in NC Public Higher Education or Employed in NC	76,300	82.5%	27,531	85.1%

Common Follow-up System Resources – Information Delivery System

NC TOWER

NC TOWER
Home About Data Search
A Product of the NC Common Follow-up System

WELCOME TO NC TOWER

Welcome to NC TOWER (North Carolina's Tool for Online Workforce and Education Reporting), a product of the Common Follow-up System. Select "Community Colleges" or "Public Universities" from the right and click "Go" to view information about the workforce and educational outcomes of programs at those institutions. Or, scroll down on this page to see selected statistics about North Carolina's State-funded education programs.

START A SEARCH FOR OUTCOME DATA

I would like to view outcome measures for:

Community Colleges

GO

HIGHLY PAID UNIVERSITY DEGREES VIEW CHART VIEW TABLE INFO

Top-Paying Bachelor's Degree Programs
(By Median Wage After 5 Years of 2007-2008 Graduates from All University of North Carolina system Schools)

Program	Median Wage after 5 Years
Nuclear Engineering	\$90,000
Computer Engineering, General	\$72,000
Electrical & Electronics Engineering	\$70,000
Chemical Engineering	\$68,000
Mechanical Engineering	\$67,000
Engineering, General	\$66,000
Mechanical Engineering/Mechanical Technology/Technician	\$65,000
Construction Engineering	\$64,000
Applied Mathematics, General	\$63,000
Medical Radiologic Technology/Science - Radiation Therapist	\$62,000

Data Source: NC Common Follow-up System

HIGHLY PAID COMMUNITY COLLEGE DEGREES VIEW CHART VIEW TABLE INFO

Top-Paying Associate's Degree Programs
(By Median Wage After 5 Years of 2007-2008 Graduates from All North Carolina Community Colleges)

Program	Median Wage after 5 Years
Cardiovascular Technology (Invasive and Non-Invasive)	\$62,000
Radiation Therapy Technology	\$58,000
Fire Protection Technology	\$55,000
Nuclear Medicine Technology	\$54,000
Clinical Trials Research Associate	\$53,000
Electrical Engineering Technology	\$52,000
Associate Degree Nursing	\$51,000
Dental Hygiene	\$50,000
Medical Sonography	\$49,000
Cardiovascular Sonography	\$48,000

Data Source: NC Common Follow-up System

NC TOWER
Home About Data Search
A Product of the NC Common Follow-up System

YOUR PROGRAM SELECTIONS

Program

You have not selected any programs yet... clicking "View Outcomes" will take you to data on students earning an Associate's Degree in All Subject Areas at All Community Colleges.

To add a program, simply click the + button on a program in the "Community College Program Finder" below.

VIEW OUTCOMES

HOW TO GET STARTED

The "Community College Program Finder" below will help you pick out up to five Community College programs you'd like to see data about. Use the controls at the top of the tool to filter for the campuses, subjects, or credentials you're interested in. Once you locate the program you want, click its + button to add it to "Your Program Selections" on the left. Then click the "View Outcomes" button to see detailed information about those students. Added a program by mistake? You can remove it with its - button.

Keep in mind that programs with more students will be less likely to have data suppressed to protect student privacy. Some tips for avoiding data suppression:

- Choose "All Community Colleges" rather than a specific college
- Choose "All Subject Areas" rather than a specific subject
- Instead of using a Subject Area with a five-digit curriculum code, use its two-digit parent. For more information, [view a list of codes](#).

Not sure what subject area you're looking for? [View a list of subject areas and their codes](#).

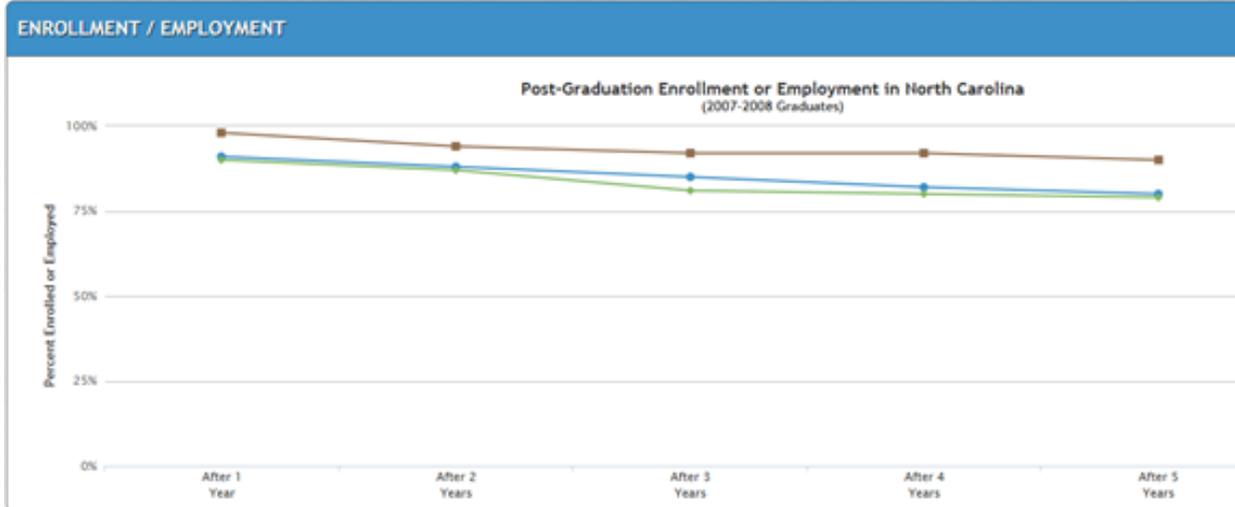
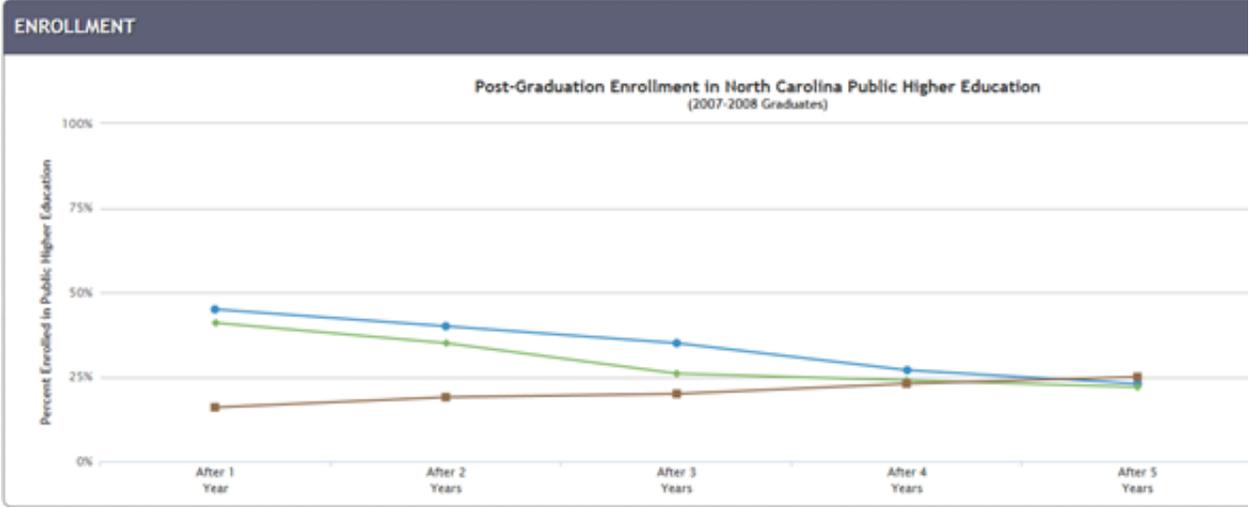
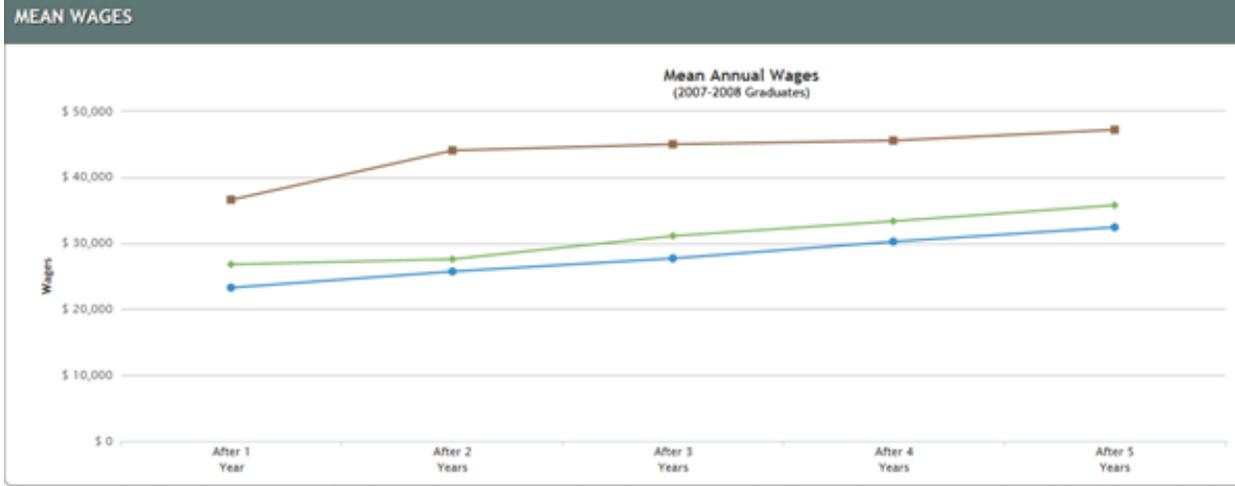
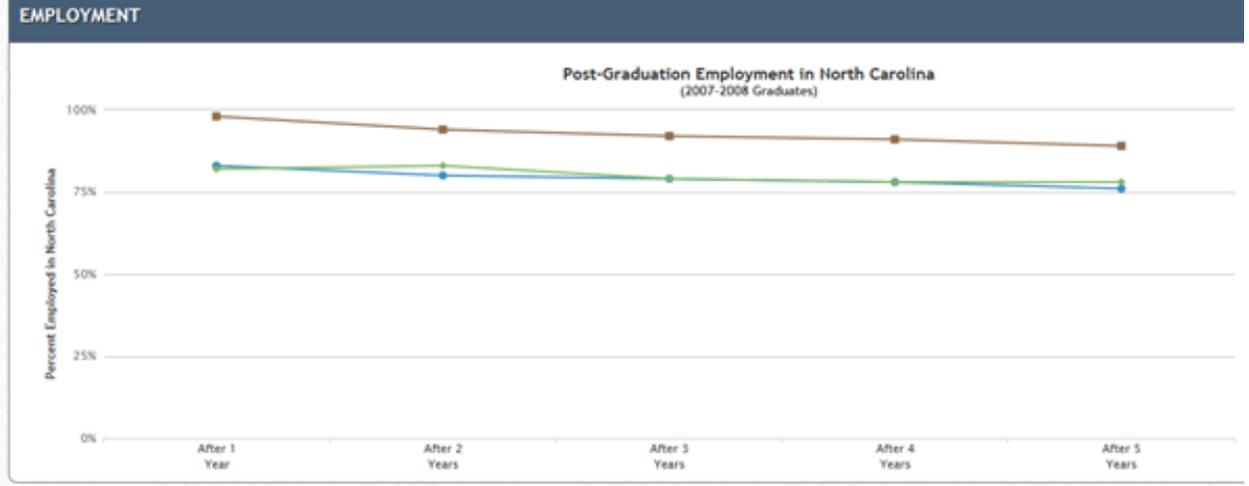
COMMUNITY COLLEGE PROGRAM FINDER

	Credential	College	Subject Area	Curr. Code
+	Associate's Degree	All Community Colleges	All Subject Areas	ALL
+	Associate's Degree	Alamance Community College	All Subject Areas	ALL
+	Associate's Degree	Asheville-Buncombe Technical Community College	All Subject Areas	ALL
+	Associate's Degree	Beaufort County Community College	All Subject Areas	ALL
+	Associate's Degree	Bladen Community College	All Subject Areas	ALL
+	Associate's Degree	Blue Ridge Community College	All Subject Areas	ALL
+	Associate's Degree	Brunswick Community College	All Subject Areas	ALL
+	Associate's Degree	Caldwell Community College & Technical Institute	All Subject Areas	ALL
+	Associate's Degree	Cape Fear Community College	All Subject Areas	ALL
+	Associate's Degree	Carteret Community College	All Subject Areas	ALL

Common Follow-up System Resources – Information Delivery System



• NC TOWER



Discussion



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