



National Center for Innovation
in Career and Technical Education

NASDCTEc Spring Meeting
Washington, DC
April 17, 2013


Overview

- ✓ About the Center
- ✓ Research and Evaluation
- ✓ Training and Dissemination
- ✓ Contact




NCICTE Agenda



- ▶ Perform rigorous, scientifically-based research
 - Collect and analyze original data
 - Perform secondary analyses of existing national, state, and local data
 - ▶ Disseminate research findings and information to the field
 - Website and social media
 - On-line training
 - Conference presentations
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Priorities



- ▶ *Programs of study (POS)/career pathways*—strengthen the alignment of CTE programs at the secondary and postsecondary education levels
 - ▶ *Curriculum integration*—identify approaches or models for improving academic and technical instruction
 - ▶ *Technology-enabled learning*—assess the prevalence and impact of technology-enabled learning on CTE
 - ▶ *Professional development*—explore effective approaches for training new CTE instructors and to support existing educators in improving their skills
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Partners



turning knowledge into practice



THE SCIENCE OF IMPROVING LIVES



ConnectEd

The California Center for College and Career

MERCURY
LABS+

GEORGETOWN UNIVERSITY



Georgetown Public
Policy Institute

Center on Education and the Workforce

 **WINDWALKER**
CORPORATION

 **MPR**
ASSOCIATES, INC.

Key Staff

- ▶ Leadership

- *Director*: Laura Knapp
- *Principal Investigator*: Steve Klein

- ▶ Lead Researchers

- *ConnectED*: Gary Hoachlander, Roman Stearns
- *FHI360*: Ivan Charner, Robin White
- *Georgetown*: Tony Carnevale, Jeff Strohl
- *Laurium*: Andrea Sykes, Cindy Decker
- *RTI*: Ben Dalton, John Vavricka
- *Windwalker*: Lyn Gubser, Lauren Malone

Rigorous Scientifically-based Research and Evaluation

- ▶ Use experimental study designs
 - Randomized controlled trials (e.g., lotteries, random assignment)
 - Quasi-experimental designs (i.e., compare like groups)
- ▶ Collect different types of data
 - Quantitative (e.g., administrative records, surveys)
 - Qualitative (e.g., case study visits, interviews)
- ▶ Harvest information from the field
 - Website searches
 - Literature reviews

NCICTE: Study Types

- ▶ Original Data Collection
 - Multi-year, longitudinal studies
 - Large-scale with mixed methods
 - Anticipate 2 studies spread over 3 years

- ▶ Analyses of Existing Data
 - Access existing national, state, or other data
 - Up to 8 studies per year

NCICTE Studies: Original Data Collection

- ▶ **Work-based Learning (WBL)**
 - How can WBL support at-risk youth and low-skill adults?
- ▶ **Aligning Education Training with Workforce Needs**
 - To what extent are postsecondary programs preparing individuals for in-demand careers?
- ▶ **The fiscal and programmatic implications of consortia formation within Perkins** *(pending)*
 - How are local consortia formed and what are their operational features?

NCICTE Studies: Analyses of Existing Data

- ▶ **Linked Learning in California**
 - Effects of student participation in certified pathways
- ▶ **Georgia statewide CTE data study**
 - Effects of student participation in CTE generally, and POS in particular
- ▶ **State funding of CTE and uses of incentive funding**
 - How are states allocating resources to local providers

NCICTE Studies: Analyses of Existing Data

- ▶ **Noncredit workforce education and industry recognized certification**
 - Identify state data that are available and assess what is known about postsecondary, noncredit program outcomes
- ▶ **Postsecondary CTE participation and employment outcomes**
 - ▶ Examine how the match between CTE field of study and post-graduate job affects employment outcomes
- ▶ **Postsecondary education expenses and earnings for CTE students**
 - Assess the relationship between college expenses and earnings for CTE students overall and by field of study

Training

- ▶ Share Center studies and related research
 - Synthesize critical findings
 - Create toolkit that synthesizes information on key topics
- ▶ Communicate information using on-line platform
 - Live webinars and webcasts
 - Pre-recorded presentations
 - Modular lessons

Training Topics

- ▶ Connecting educational programming with workforce needs
 - Share approaches to identify high wage, high demand careers
 - Link projected employment demand with education supply
- ▶ Using multiple pathways to transform schools
 - Describe essential features of multiple pathways
 - Present strategies for introducing and sustaining pathways
- ▶ Curricular Design and Instructional Practice
 - Approaches for integrating academic and technical standards
 - Options for using work-based learning to complement instruction

Dissemination

- ▶ NCICTE Website

<http://www.ctecenter.ed.gov/>

- ▶ Social media

- Follow @NCICTE on Twitter
- Connected with us on LinkedIn

The screenshot shows the NCICTE website homepage. At the top is the NCICTE logo and the full name: NATIONAL CENTER FOR INNOVATION IN CAREER AND TECHNICAL EDUCATION. Below this is a navigation bar with links: HOME, ABOUT NCICTE, OUR RESEARCH, CTE RESOURCES, and TRAINING CENTER. There is also a search bar with the text 'Google Custom Search' and a 'GO' button. The main content area is divided into several sections. On the left, under 'Welcome to NCICTE!', there is a paragraph about the center's mission. Below that is a section titled 'Our Research Priorities' featuring a graphic of three stylized human figures (green, orange, blue) standing behind a bar chart. To the right of the graphic is a box titled 'Collecting and Using Data' with text about evidence-based decision making. On the right side of the page, there is a 'Featured Report' section titled 'Career and Technical Education: Five Ways That Pay Along the Way to the B.A.'. It includes a graphic of a dollar sign with a path leading to it and a list of five pathways: Associate's degrees, Postsecondary certificates, Registered apprenticeships, Industry-based certifications, and Employer-based training. Each pathway is accompanied by a brief description. At the bottom right, there is a 'DOWNLOAD PDF' button.

NCICTE
NATIONAL CENTER FOR INNOVATION IN
CAREER AND TECHNICAL EDUCATION

HOME ABOUT NCICTE OUR RESEARCH CTE RESOURCES TRAINING CENTER

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Welcome to NCICTE!

The National Center for Innovation in Career and Technical Education (NCICTE) performs scientifically based research and evaluation to strengthen the role of career and technical education in American education. Our work explores how the real-world application of core academics can help raise the educational achievement and career readiness of all students. This includes documenting promising strategies for integrating academic knowledge with technical skills, and investigating new approaches for organizing programs, providing training, and delivering services.

Our Research Priorities

Establishing a credible evidence base to support data driven decision making is crucial to advancing NCICTE work. Center researchers are committed to enhancing the development and use of national and state longitudinal data systems that follow individuals over time to relate their educational experiences to the outcomes they achieve.

Collecting and Using Data

Featured Report

Career and Technical Education: Five Ways That Pay Along the Way to the B.A.

There are 29 million jobs that pay middle-class wages (between \$35,000 and \$75,000 annually). Nearly 40 percent pay more than \$50,000 a year, according to the new study released jointly by the Georgetown University Center on Education and the Workforce and Civic Enterprises.

There are five pathways that provide career and technical training that lead to these jobs. The study examines each of these five CTE pathways in major detail:

- **Associate's degrees** account for 800,000 awards each year. Half of associate's degrees are related to career-oriented fields, such as nursing, business, and information technology.
- **Postsecondary certificates** have eclipsed associate's and master's degrees as the second most common postsecondary award after the bachelor's degree—about 1 million are awarded each year.
- **Registered apprenticeships** account for \$6 billion in spending and reach roughly 400,000 Americans. Nine out of 10 apprentices are men and over half of apprenticeships are in construction.
- **Industry-based certifications** such as Microsoft, Cisco, and CompTIA certifications are test-based postsecondary credentials awarded by employers and account for \$25 billion of spending on human capital development.
- **Employer-based training** represents the largest pathway at \$454 billion of spending—\$313 in informal training and \$141 billion in formal training.

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