Local Employment Dynamics: P-20 Education Applications

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Overview

• P-20 Education Data Systems
• Washington State efforts
• Advantages of the LED program in assessing education outcomes at the national level
• Wish list
P-20: Emphasis on Transitions

• Formal education from the pre-school years through postsecondary education and training
• Plus transitions into workforce
• Emphasis on longitudinal aspects at the individual level – not just a series of snapshots
Washington’s Direction

• P-20 includes education and workforce – LMI shop is a partner agency.

• Focus on developing longitudinal information spanning the P-20 education system in order to facilitate analyses, provide meaningful reports, collaborate on education research, and share data

• Goal: Well-informed policy-makers
Examples

• What postsecondary programs lead to a high rate of employment nationally?
• What are the wage trajectories over a 10-year period after graduation for various programs?
• What programs are associated with predominantly in-state employment after receipt of the degree?
• What is the nature of state-to-state migration of program completers by degree area?
P-20 Longitudinal Data System

K-12: Students, Courses, Graduation, Teachers

Early Learning: Preschool, Child Care, Teachers

Post-secondary: Students, Courses, Financial Aid, Degrees, Majors

Employment: Industry, Hours, Earnings

Social Services Corrections

Staging Area
- Matching & Linking
- Validation
- Derivation of longitudinal elements

Data Warehouse (de-identified)

P-20 Information For Parents, Teachers, Administrators, Planners, Policy-Makers, Researchers
Routine Feedback Reports
Special Reports, Research Datasets
Workforce Transitions

• Washington: 20+ years of experience linking education and training data to workforce data at the individual-level

• Worker retraining programs – accountability
  – Comparison of wages before and after, higher wage programs broken out

• Job preparatory and apprenticeship students
  – Employment rate, median wage
Public Baccalaureate Outcomes

• National level analysis particularly important

• Outcome: Further education
  – Public within Washington – ERDC
  – Private, Public outside Washington – National Student Clearinghouse

• Outcome: Workforce
  – Within Washington – UI Wage Data
  – National – LED?
LED Program and Education

• National-level
• Preserves confidentiality
• Includes self-employed, federal, and postal employment
• Sophisticated longitudinal analysis of our state’s higher education participants, consistent reporting
• With multi-state participation, analysis of two-way flows possible
Education Data Inputs

• Student information:
  – Demographic information
  – For graduates: Degree awarded
  – For non-graduates: Class standing or level (graduate, professional)
  – Major field of study
    • Classification of Instructional Program (CIP) code

• Institution information
Education Planning

• Program evaluation – Labor force outcomes
  – Where are graduates of a program employed?
  – What are their wage trajectories?
  – How many jobs do they hold during the first x years after graduation?
  – What is the employer profile for firms hiring graduates?

• What are the characteristics of the cohort of graduates entering the state?
Special Case: Teachers

• Newly credentialed teachers
  – Where are newly credentialed teachers employed?
  – How many are employed in education?

• Experienced teachers
  – How many are employed in public education after leaving Washington?
  – What are their earnings? Wage trajectories?
Occupation?

- Some policy-makers would like to determine if graduates are “employed in a field related to the degree”
  - Can be very helpful when evaluating certain programs, but not applicable to others

- Partial sources or clues: professional licensing, risk category for workers’ comp

- Is there a role for the LED program?
Summary

• The LED Program – a promising source of longitudinal workforce information for postsecondary participants
  – Near-national follow-up
  – True longitudinal dimension
  – State-to-state analysis possible
  – Standardized summary reporting
  – Strict confidentiality methods
Thank you!

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