LAB FOR ECONOMIC OPPORTUNITIES

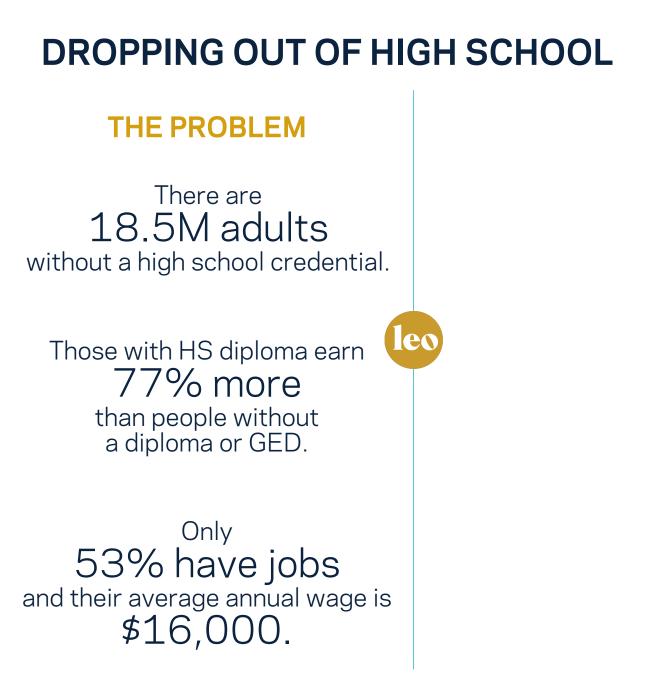
The Labor Market Return to Reversing High School Dropout

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DROPPING OUT OF HIGH SCHOOL

THE PROBLEM THE COMMON **POLICY RESPONSE** There are Fund 18.5M adults GED test prep without a high school credential. programs. leo Those with HS diploma earn Evidence of 77% more little to no impact than people without on earnings. a diploma or GED. Only 22 states offer 53% have jobs no path to diploma and their average annual wage is and 9 have adopted option \$16,000. since 2010

leo

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THE PROBLEM

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leo

Those with HS diploma earn 77% more than people without a diploma or GED.

Only 53% have jobs and their average annual wage is \$16,000. Evidence of little to no impact on earnings.

THE COMMON

POLICY RESPONSE

Fund

GED test prep

programs.

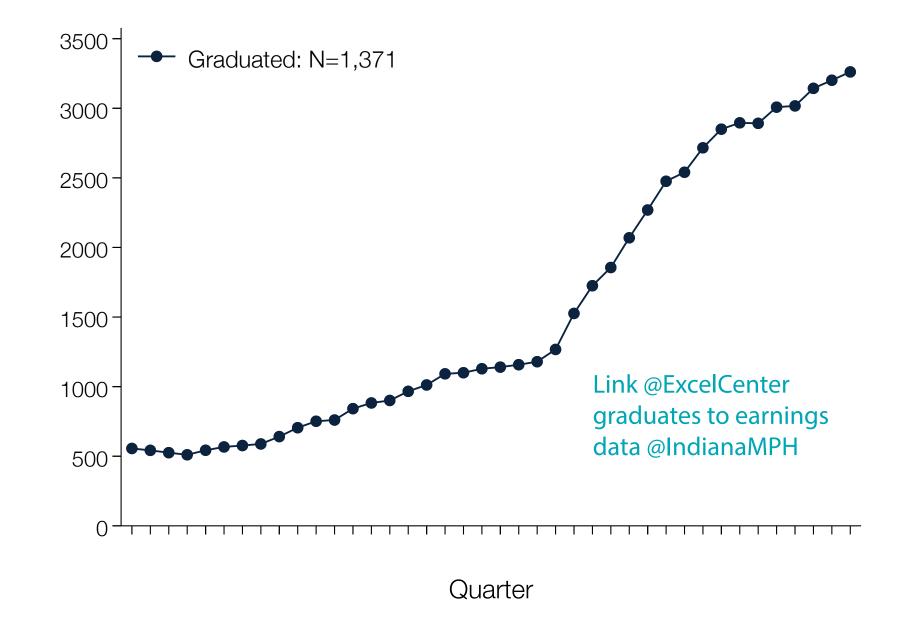
22 states offer no path to diploma and 9 have adopted option since 2010



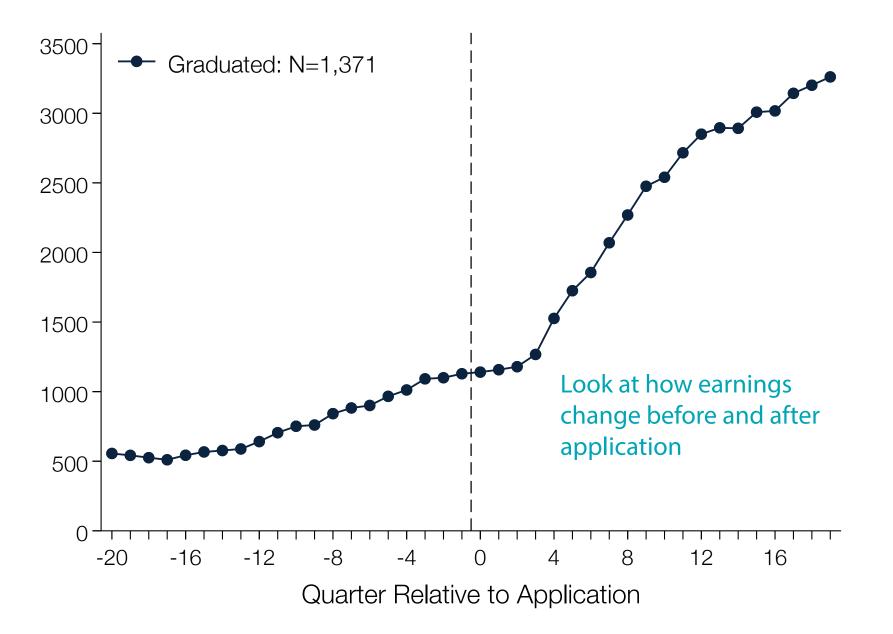
An adult high school where graduates earn a traditional high school diploma.

leo

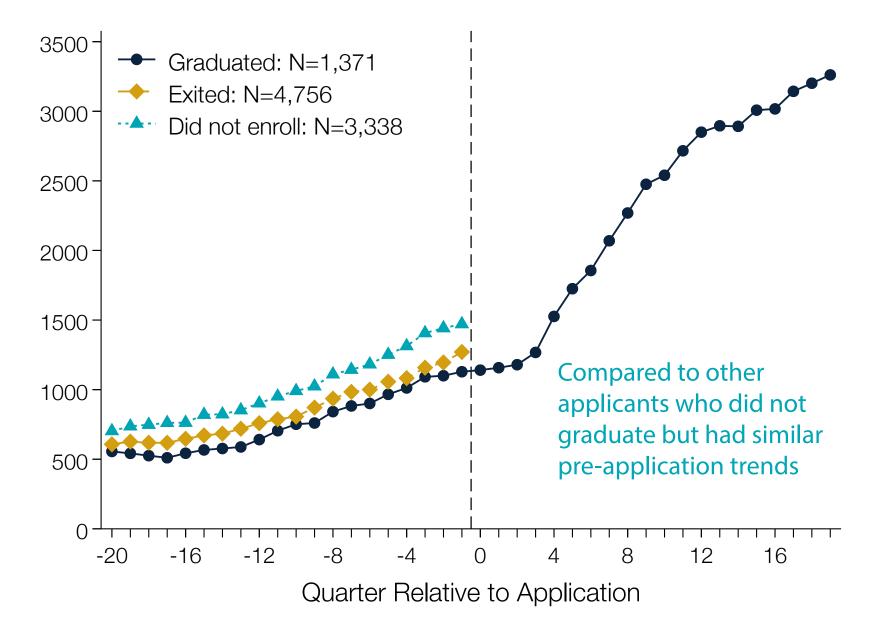
Accelerated curriculum Flexible schedules Free childcare Transportation assistance Life coaches Dual credits and certificates



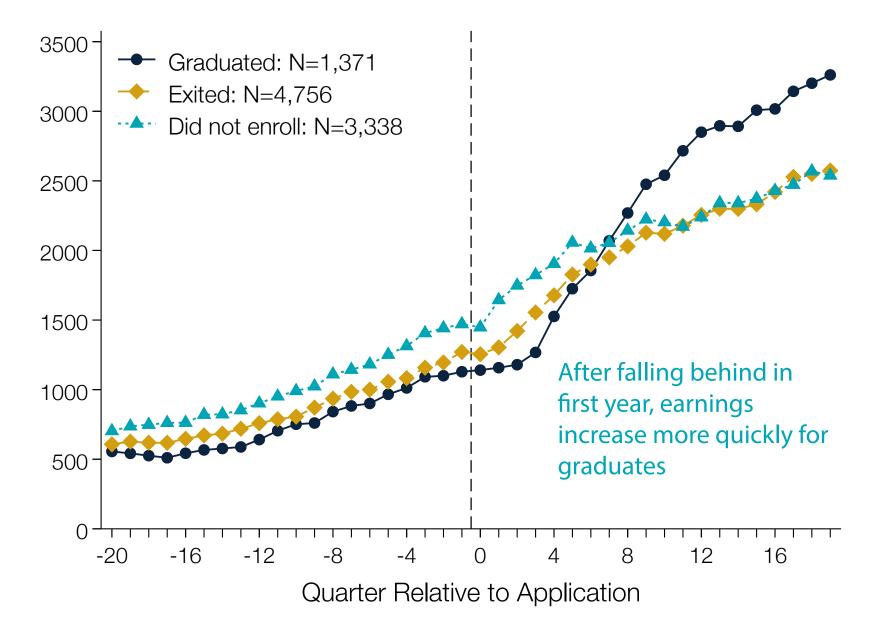














DATA

All Excel Center applicants (2013-2016)

TEC Analysis sample

- Graduates: N = 1,371
- Exited: N = 4,756
- Did not enroll: N = 3,338

All GED/HSE takers in IN during the period

MANAGEMENT PERFORMANCEHUB





GOODWILL OF CENTRAL & SOUTHERN INDIANA







INDIANA COMMISSION for HIGHER EDUCATION

IDENTIFICATION STRATEGY TWO APPROACHES TO ADDRESS SELECTION CONCERNS

Main approach: difference-in-differences Compare changes in earnings of graduates and non-graduating applicants, before and after application

1) Bounding with positively selected non-graduates Leave Excel Center because they got a job

2) Placement in remedial coursework as instrument Determined at enrollment, not related to subsequent shocks Non-remedial ~15pp more likely to graduate



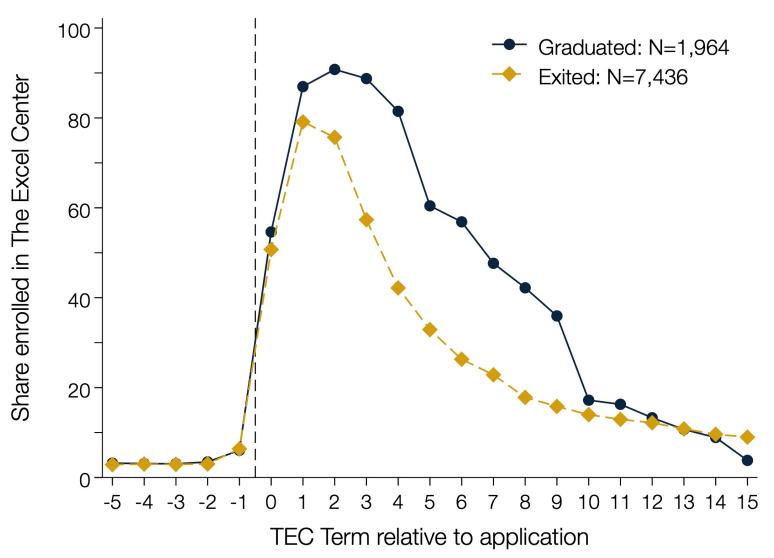
TIMING OF TEC ENROLLMENT SHARE ENROLLED IN TEC

Nearly 60 percent enroll in TEC during the first term after application

Drop in enrollment for graduates after 5 terms (1 school year)

Non-graduates are about 20 pp less likely to be enrolled during first 2 years after application

Most graduates finish within 2 years



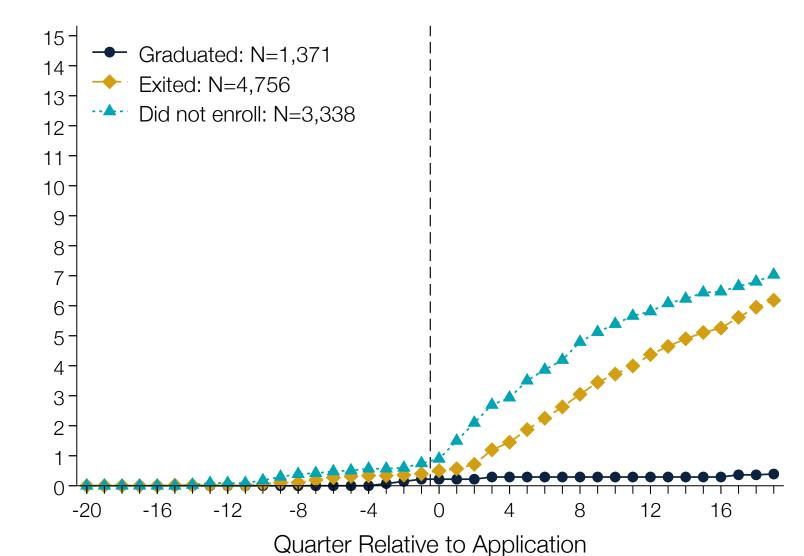


SUBSTITUTION IN EDUCATIONAL CREDENTIAL SHARE PASSING THE GED

Uncommon for TEC applicants to receive full high school diploma from other sources (only 2 in IN)

Some applicants do pursue the GED (or High School Equivalency test)

Roughly 10 percent of comparison group receive GED within 5 years





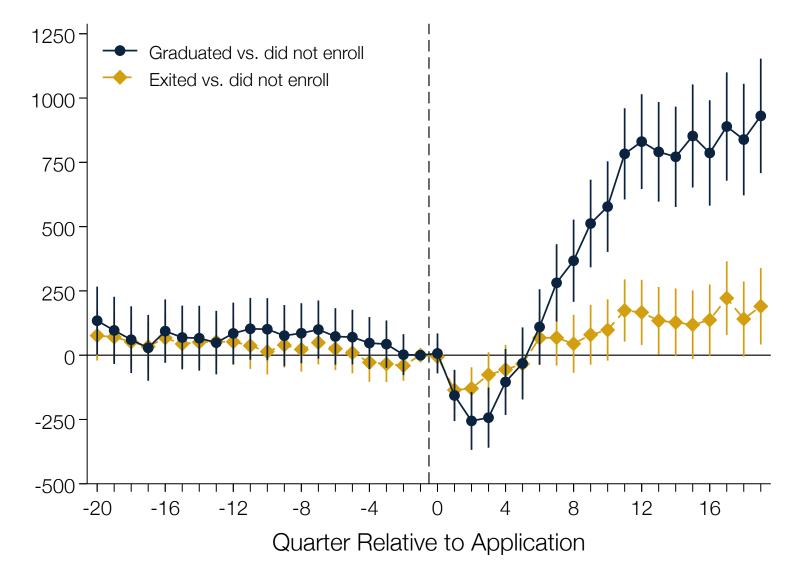
LARGE INCREASE IN EARNINGS AMONG GRADUATES EVENT STUDY FIGURE

Similar pre-trends between graduates and non-graduates

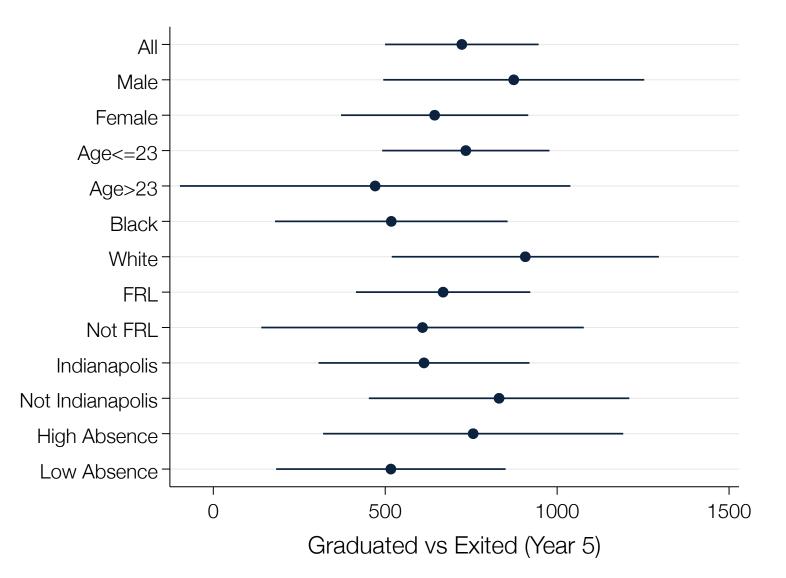
Decline in earnings while enrolled in school

Earnings of graduates increased more than \$900 relative to applicants who did not enroll in 5th year after application: a 39% increase

Small increase for enrolled, but not graduating students



HETEROGENEITY NO LARGE DIFFERENCES ACROSS SUBGROUPS



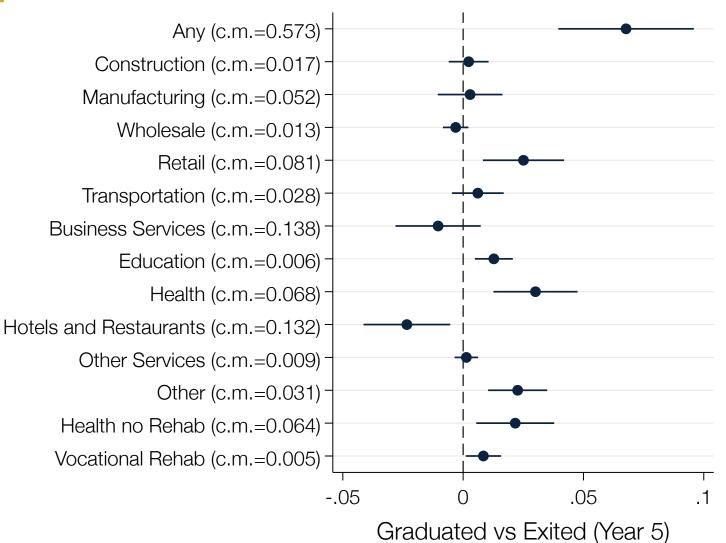


SHIFT IN INDUSTRY OF EMPLOYMENT EMPLOYMENT BY INDUSTRY, YEAR 5

Increase in quarterly employment rates 5 years after application (6.8 pp)

Driven by shift toward Retail Trade, Education, Healthcare employment

Decline in work at Hotels and Restaurants





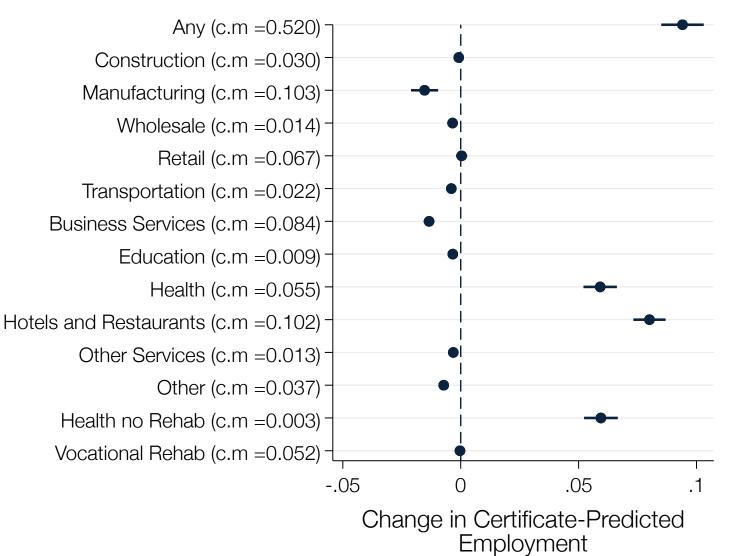
LARGE INCREASE IN OBTAINING CERTIFICATES SHIFT TOWARD HEALTHCARE

Observe a large increase in obtaining postsecondary certificates and certifications

Data on all GED-takers in IN

Estimate industry distribution of workers with different certificates

Graduates experience an increase in certificate-predicted employment in health industry





IMPROVING LIVES OF ADULT HIGH SCHOOL LEARNERS OUR CONTRIBUTION

Labor Market Returns to HS Diploma

- Adult learners
- Traditional students (Angrist and Kreuger, 1991; Oreopoulos, 2006, Clark and Martorell, 2014)
- Estimate return to GED in Indiana
- Return smaller than diploma (Heckman, et al., 2011; Murnane et al., 2000; Jepsen et al., 2016)

Later-life Interventions Can Have High Returns

- Disappointing return to training programs and GED
- Graduation unresponsive to returns to skill (Goldin and Katz, 2009; Murnane, 2013)
- Comprehensive supports in successful anti-poverty programs
 - Neighborhoods (Bergman et al., 2020)
 - Community college (Weiss et al., 2019; Azurdia and Galkin, 2020; Evans et al., 2017)
 - Self-sufficiency (Evans et al., 2020)





THANK YOU

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bit.ly/LEO_TEC