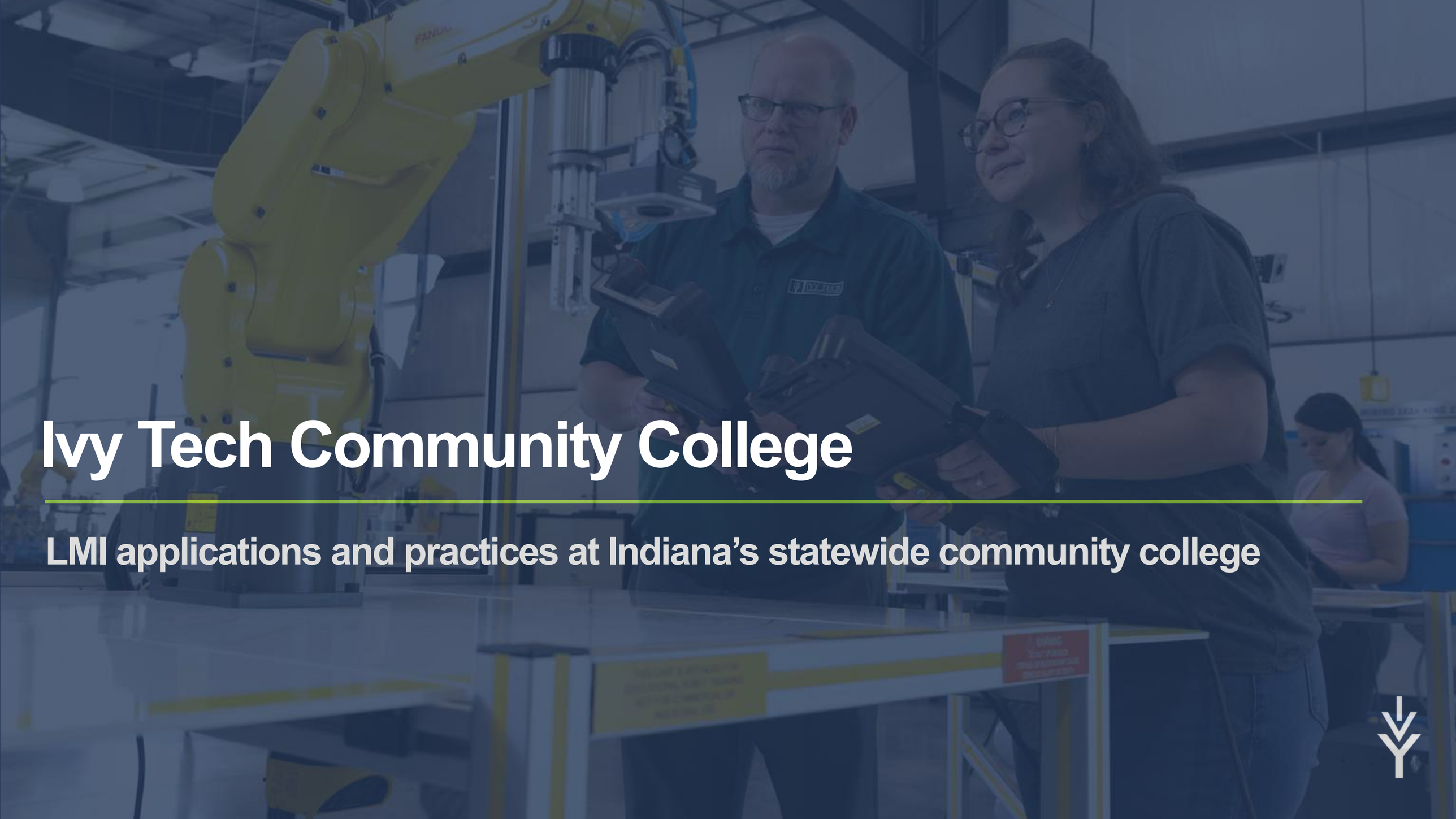


Ivy Tech Community College

LMI applications and practices at Indiana’s statewide community college

ABOUT IVY TECH

Indiana's largest public postsecondary institution

Affordable, flexible education

Industry-relevant career and technical training



Presentation Scope

Ivy Tech LMI Applications:

- Academic Programs
- Workforce / Skills Training (Non-Credit)

Workforce Division Focus

- Research to inform Workforce Enrollment Delivery
- Leveraging LMI to prioritize high-value credentialing programs and industry engagement
- Quantitative demand for workforce credentialing model

Insights to support your Workforce Division



LMI Applications

Ivy Tech leverages LMI data towards:

- Program Review & Design
  - Academic degree and non-degree
  - Skills Training (non-credit)
- Employer Engagement
  - Industry prioritization and strategic planning
- Marketing
  - Enrollment marketing
  - Admissions advising
  - Career coaching



Institutional Policies

Academic Program Review

Policy: Annual academic program review encompasses the following elements, defined at the campus program level:

- Enrollment
- Persistence
- Completion
- Labor market demand and salary data
- Identification of equipment and space gaps for program execution

Scope: Relates to all degree and non-degree for credit programs of study.

Institutional Policies

Skills Training (Non-Credit) Program Design/Definition

Policy: Establishes Skills Training Quality Standards Framework to guide development and maintenance of Skills Training programs:

- Labor Market Alignment
- Skill Outcomes
- Equity & Access
- Assessment of Knowledge
- Stackability &/or Academic Crosswalk
- Standardized Pricing Delivery

Scope: Relates to all Skills Training (non-credit) programs. Excludes Personal Enrichment courses.

UPSKILLING AND RESKILLING INDIANA’S WORKFORCE

Projecting Indiana's Workforce and Talent Demand To Support Targeted Industry Growth, 2023-2032

Existing/Legacy Strengths

New/Emerging Targets

Mobility Systems, Power, & Propulsion

Life Sciences

Insurance & Insurance Innovations

Semiconductors & Microelectronics

Hydrogen Production, Storage, & Energy

Examples of Relevant Skills Training

Broad-based Upskilling, Reskilling in Digital Skills for Mfg. 4.0, Examples:

- Smart Mfg. & Digital Integration;
- Automated Industrial Tech Certificates;
- Mechatronics Engineering Tech;
- Automation & Robotics
- Industrial Mfg. Technician Apprentice Program

Digital Skills Upskilling for Automotive Trades, Techs via: Augmented and VR training on advanced vehicles; digital literacy for older workers.

Biomanufacturing Process Technician Certification: safety, cGMP, measurement, process flows, Aseptic processing, fermentation and cell growth, etc.

Cybersecurity Certificate & SSCP Certification: Database & SQL fundamentals, Networking, Scripting with Python, Cybersecurity

Semiconductor Technician Hands-on Training, Rapid Upskilling: Clean Rooms, Equipment, Chemical Baths, Packaging, etc.

Hands-on Training focused in: hydrogen storage, hydrogen safety, regulatory knowledge, hydrogen production design, etc.

DEFINING

IVY TECH'S ROLE

82,000

Hoosiers per year will need to reskill or upskill over the next 10 years to meet labor market demands

80%

of Ivy Tech's current skills training offerings align with projected labor market needs

Source: TEConomy Partners

69% of JOBS in

INDIANA'S KEY INDUSTRY SECTORS

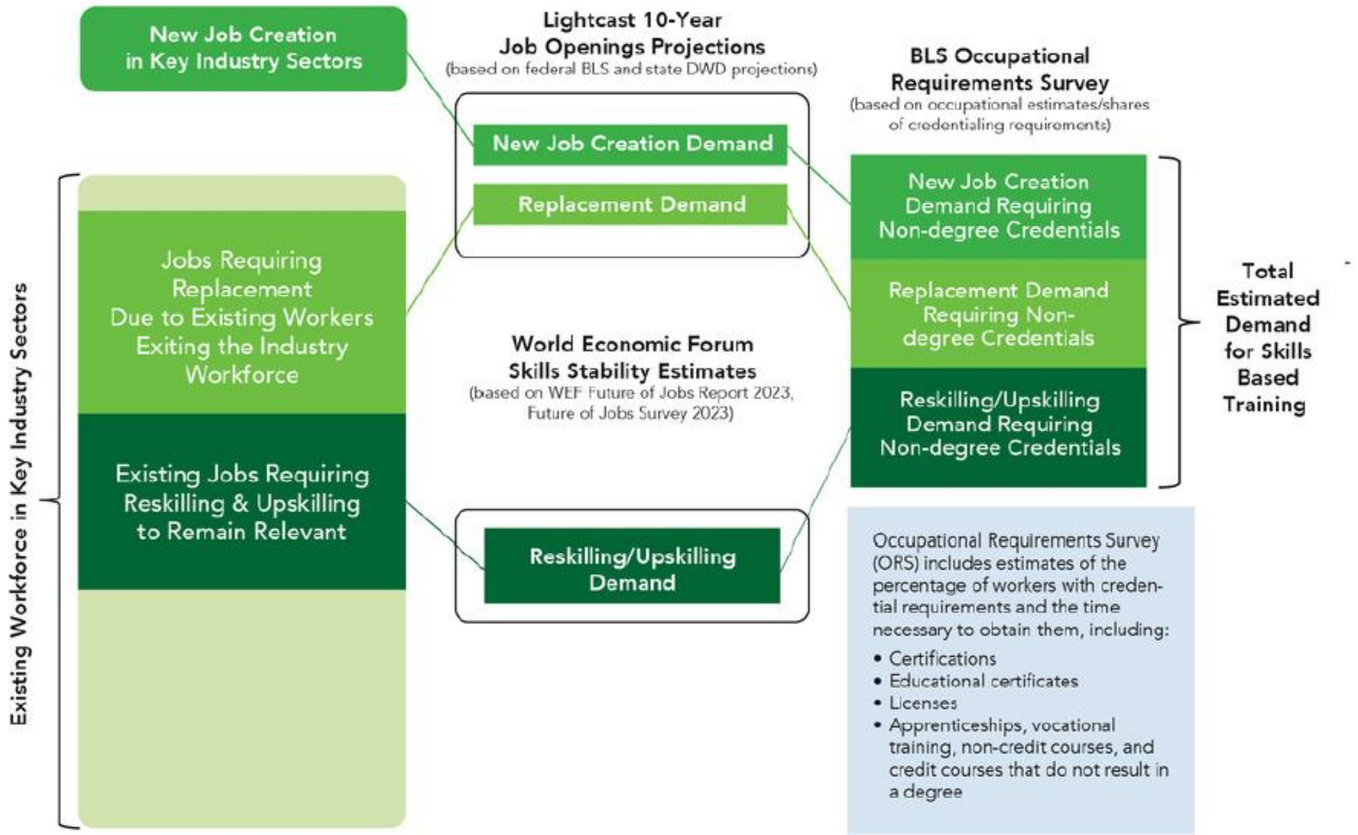
- ADVANCED MANUFACTURING
- BUSINESS
- HEALTHCARE
- INFORMATION TECHNOLOGY
- TRANSPORTATION & LOGISTICS

RESEARCH DEMAND BY SECTOR

	ANNUAL POSITIONS
ADVANCED MANUFACTURING	18,300
TRANSPORTATION & LOGISTICS	24,000
HEALTHCARE	38,700
INFORMATION TECHNOLOGY	1,300*

RESEARCH DEMAND METHODOLOGY

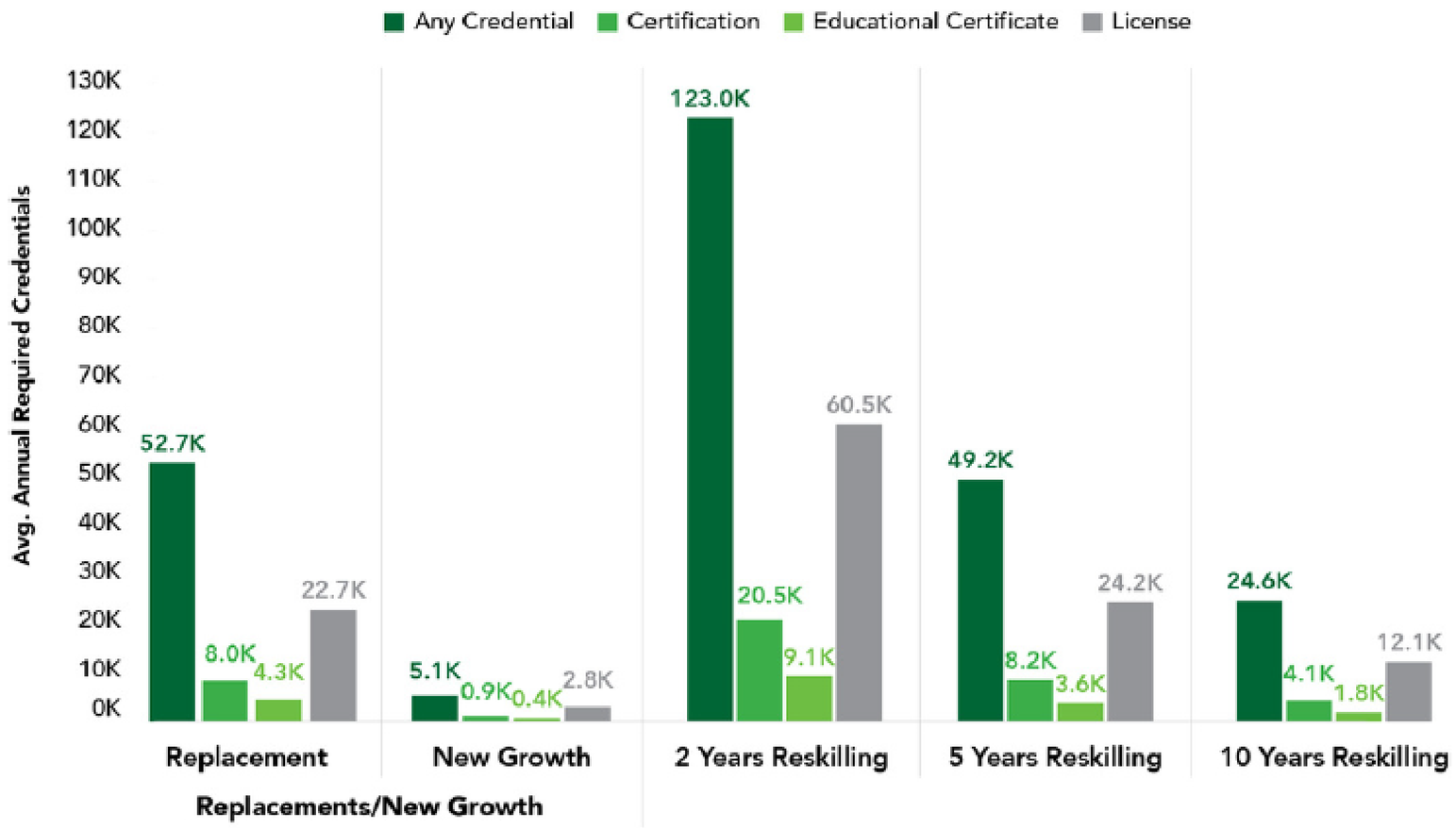
Figure 6: Methodology for Estimating Demand for Skills-Based Training in Indiana



[21] For more information on the ORS, visit: https://www.bls.gov/ors/.

RESEARCH DEMAND BY TRAINING NEED

Figure 1: Average Annual Demand for Credentials by Credential Type and Assumed Period of Reskilling, All Industry Areas



Source: TEConomy Partners analysis of LightCast QCEW data; BLS Occupational Requirements Survey data; WEF Future of Work Jobs Report and Survey 2023 data.

RESEARCH TO APPLICATION

Conexus Indiana (State Mfg Industry Sector Entity) recently published talent case study on Ivy Tech's emerging Industry 4.0 non-credit Skills Training programs.

5 regional campuses launched PLC bootcamps across 20 employers and 40 upskilled employees.

PLC tech skills is one of fastest growing MFG occupations within state of IN; compared against declining occupations.

Link: https://www.conexusindiana.com/case-study/ivy-tech-community-college/

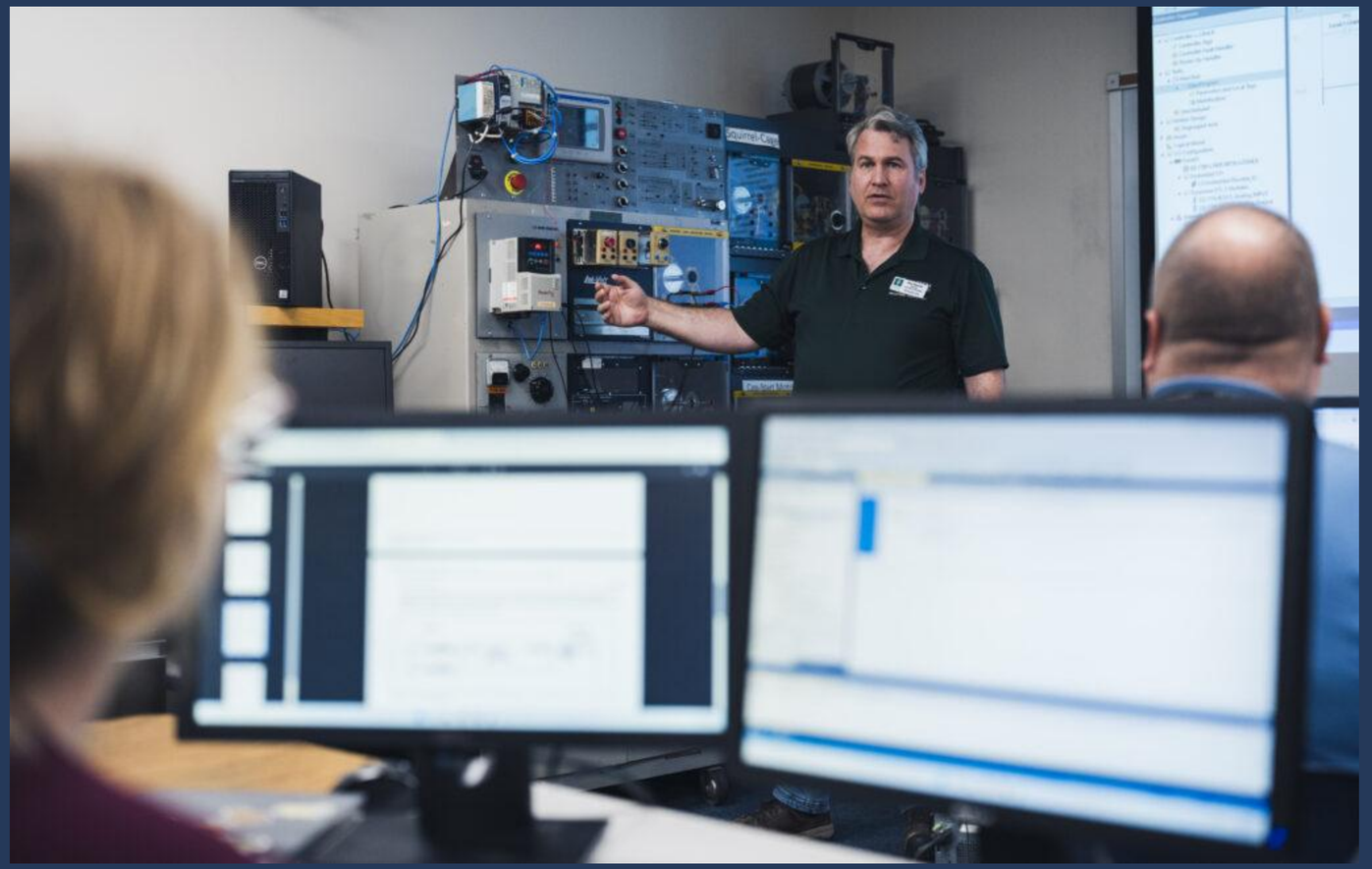
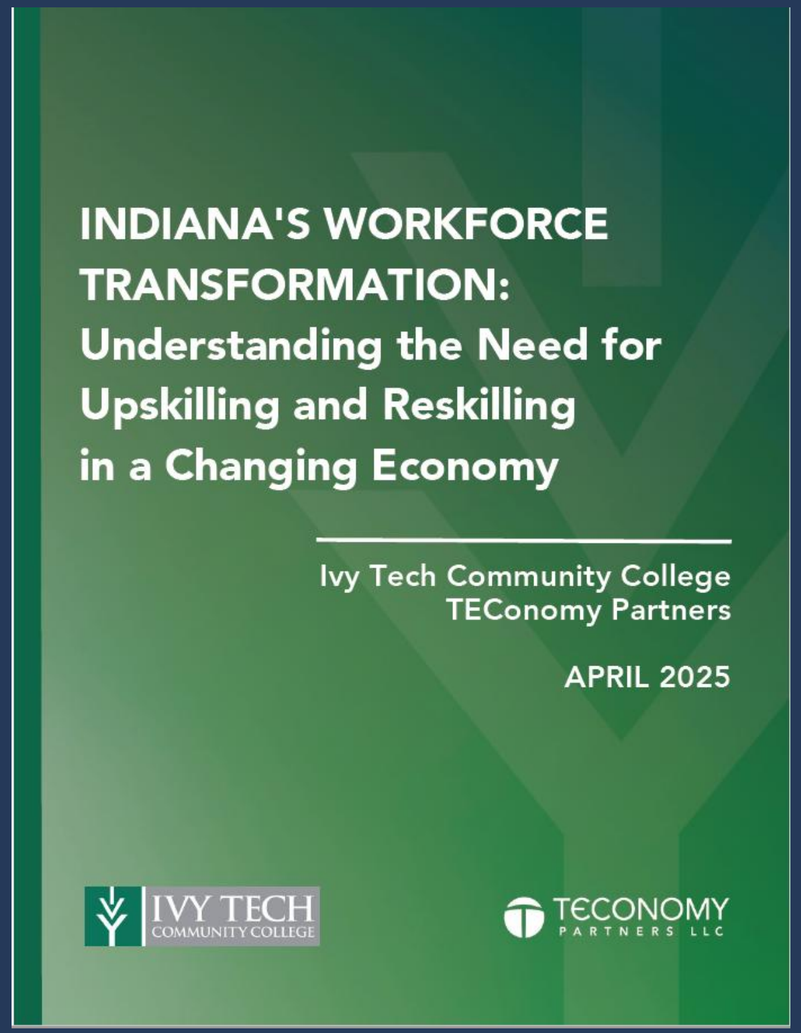


Photo: May 2025 PLC Skills Training Bootcamp – Indianapolis Campus

WHITEPAPER



DOWNLOAD

Ivy Tech Community College

HIGHER EDUCATION at the *SPEED OF LIFE*