





Strategies to Address CTE Faculty Shortages



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Objectives

Understand research on CTE teacher shortage

Explore Promising Practices

Identify local solutions

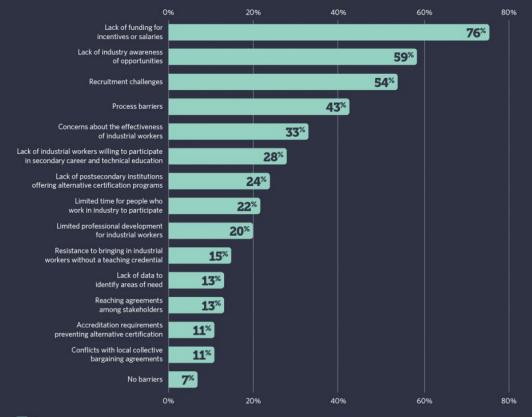
Reflection on Next Steps





Barriers to tapping industry for technical education

Lack of funding is a major reason why it's hard to bring people who work in industry into high schools, a survey of 47 state directors of career and technical education programs found.



Percent of respondents

Source: "The State of Career Technical Education: Increasing Access to Industry Experts in High Schools," Advance CTE, December 2016.
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Recruit

Retain

Prepare

Not a New Issue



Need for a
Research
Agenda to
Address Problem

Methods to study shortage

- Surveys/Questionnaires
- Case Studies
- Analysis of employment data
- Literature Reviews
- Focus groups
- Interviews
- Policy studies
- Evaluations of programs

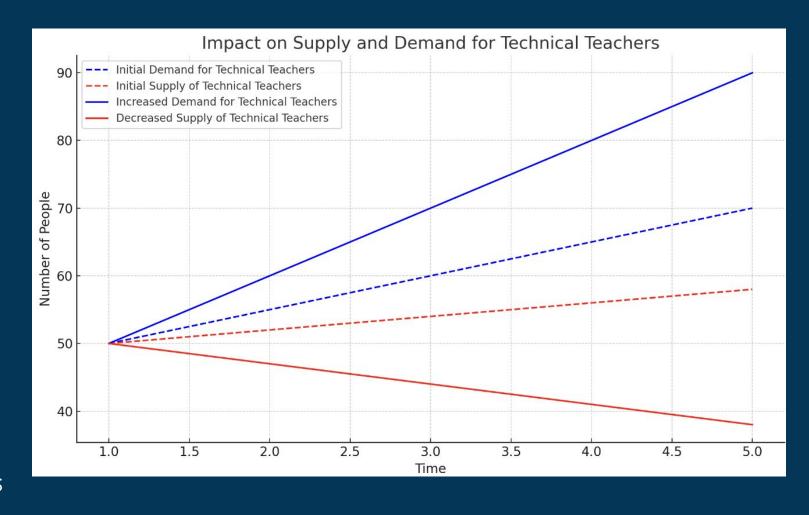
How to Study Shortage

- Human Capital Theory
 - Higher wages for technical skills
- Sociological Perspective
 - Status and prestige
- Motivation and Incentive Theories
 - Intrinsic Motivation
 - Extrinsic Motivation
- Policy Impacts
- Teacher pipeline and training
- Supply and Demand Dynamics
- Dynamic Labor Market Theory
 - Career trajectories
 - Influences on trajectories

WHY IS THERE SHORTAGE?

Potential Causes

- Increased demand
- Supply of teacher
- Budget Issues
 - Pay
- Qualifications
 - Work Experience
 - Degrees
 - Certifications
 - Credentials and Licensing
- Changing expectations
- Changing working conditions
- Geographical locations
- Competition with other schools
- Competition with business
- Aging workforce
- Secondary CTE teacher shortage



How to tell extent of shortages

- Word of mouth
- Job posting
- Program offerings
- Employers
- Challenges of estimating extent
 - What happens if we don't have a CTE teacher?
 - Long term shortages of CTE Teachers at postsecondary vs secondary

Advance CTE research on this issue, 86 percent of State Directors reported a moderate or severe CTE teacher shortage in at least one Career Cluster at the secondary level, and a further 60 percent indicated the same at the postsecondary level.

https://ctepolicywatch.acteonline.org/2021/01/state-of-cte-cte-instructors-in-perkins-v-state-plans.html

Impacts

Educational Offerings & Curriculum

Faculty Burnout

Quality of Instruction

Employee Well-being & Engagement

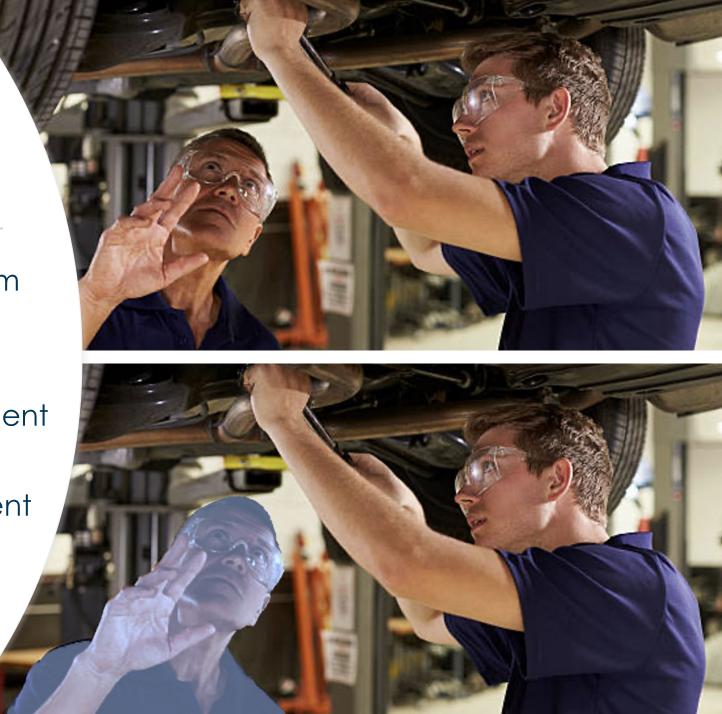
Student Support & Satisfaction

Community & External Engagement

Reputation & Accreditation

Financial & Institutional Health

Collaboration & Teamwork



Recruit, Retain, and Prepare

Compensation/Salary/Incentives

Flexibility in Teaching Schedule

Alternative Pathways

Partnerships with Industry

Mentoring and Peer Support

Opensource Preparation Tools

Recruiting, retaining, and preparing postsecondary CTE teachers is not just an investment in education; it's an investment in the future workforce. These dedicated educators play a pivotal role in shaping the next generation of skilled professionals, ensuring that our industries remain strong and our communities prosper.



Success Via Apprenticeship (SVA)

- Graduates to become teachers
- Eligible for admission to college
- Components
 - Teaching internship
 - Industrial work experience
 - Postsecondary academic study

Wilkin, T., & Nwoke, G. I. (2011). Career and technical education teacher shortage: A successful model for recruitment and retention. *Journal of STEM Teacher Education*, 48(1), 6.



Challenges

- CTE is in so many places
 - Credit / non-credit
 - Clusters
 - Diversity of the fields
- Data
 - Is not available
- Differences by states/regions
- Economic impact of shortage
- Stakeholders for CTE teacher shortage

Challenges for Researching Postsecondary CTE Teacher Shortage

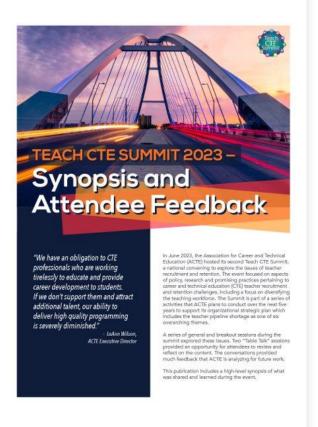




Teach CTE Repository

This repository continuously highlights promising programs and practices around the CTE educator pipeline. The entries are collected from reports, articles and other resources that provide background about this critical issue and reveal promising programs and practices. We hope to share more about proven strategies as that knowledge becomes available.

Disclaimer: No materials presented in the repository should be presumed to reflect the positions or policies of ACTE. ACTE does not guarantee the accuracy or applicability of the information represented in this repository. In addition, ACTE does not endorse any program, practice or organization present in this repository. The information present is strictly for informational and educational purposes.



Promising Practices

tinyurl.com/teachctereport

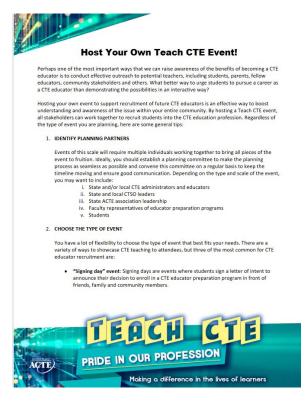
Teach CTE Summit 2023

https://tinyurl.com/teachctereport



TEACH CTE RECRUITMENT TOOLKIT





NAAE National #TeachAg Campaign

SAVE THE DATE! NAAE NATIONAL #TEACHAG DAY THURSDAY, SEPTEMBER 21, 2023 | WWW.NAAE.ORG/TEACHAG

Save the Date for NAAE National #TeachAg Day, which is Thursday, September 21, 2023 NAAE is excited to be sharing educator resources, lesson plans, and more in the weeks to come. NAAE National #TeachAg Day is an initiative of the National Association of Agricultural Educators (NAAE). NAAE is proud to partner with the CHS Foundation to encourage others to teach school-based agriculture and recognize the important role that agriculture teachers play in our schools and communities.



WHY TEACH AG?

FIND A COLLEGE

STATE TEACH AG SITES

FUTURE TEACHER RESOURCES

CLICK HERE TO JOIN THE NAAE
NATIONAL #TEACHAG CAMPAIGN

STUDENTS | TEACHERS | SUPPORTERS

https://www.acteonline.org/teach-cte-recruitment-toolkit

Other Resources



FACULTY RECRUITMENT TOOLKIT



CTE Teacher Recruitment, Training, and Retention Toolkit

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Included on this page are tools and best practices to search and recruit equitably and robustly, and to attract and retain worldclass talent. All of the materials presented are based in the peer-reviewed published literature and are proven best practices. While individual studies are not cited to keep the materials readable, the bibliography can be found here.

support the universities commitment to inclusive excellence. Strong recruitment enhances our institutional reputation and should leave positive impressions even on people who are not interviewed or not offered a position. For those who are offered a position, a positive and rigorous recruitment experience is the natural start to a robust and welcoming integration into the

Before the Search During the Search After the Search After the Hire

Before the Search

university as a colleague.

Being part of the faculty search process is one of the most important things that you can do to ensure CSU is providing students with high-quality experiences and promoting scholarly excellence. This section contains resources focused on faculty recruitment; compiling search committees; obtaining training for search committee chairs and members; writing faculty position descriptions; and posting open positions.

Diversity, Equity, and Inclusion

While preparing for a search, there are many opportunities to embed best practices for enhancing diversity, equity and inclusion (DEI). These practices include but are not limited to choosing the search committee; delivering a thorough and thoughtful charge meeting; training and educating the search committee on topics such as bias, microaggressions, and inclusive language; writing a position description that focuses on using inclusive language; creating a plan to evaluate all candidates; and promoting ongoing active recruitment practices that engage many talented colleagues at every opportunity (even when searches are not currently happening). It is also important to consider the time it takes to fully invest in a



Next Steps

- Create a planning committee and set objectives for awareness, marketing and outreach
- Investigate historical hiring need trends at your institution; communicate with local advisory group leads
- Talk with your institution's marketing & communications team; explore a Teach CTE campaign
- Participate in Teach CTE Workshops in 2024 (April, May, June-Locations TBA

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