

# The Reach Higher Career App Challenge

## Additional Resources

### ADDITIONAL RESOURCES

Included below are the many free resources available to solvers entering the Reach Higher Career App Challenge (RHCAC). Most of tools are optional, please see challenge criteria for required resources.

Less than half of employers believe graduates are adequately prepared to enter the job market.

3x as many students are assigned to counselors as what the profession believes is appropriate.

Federal regulations govern the use of student data in educational tools.

*Note: All links are provided for informational purposes only.*

### DEVELOPER RESOURCES

[Occupational Outlook Handbook](#), *Bureau of Labor Statistics*.

This database contains occupational info (e.g., job descriptions, salary expectations, education levels) for hundreds of career paths.

[Developer's Corner](#), *Occupational Information Network (O\*NET) Resource Center*.

This page facilitates the use of the O\*NET Database and other O\*NET Products and provides support for those interested in developing products, software, or system applications containing O\*NET information.

[MyNextMove](#), *U.S. Department of Labor*.

This tool lets user browse occupations in the O\*NET database by keywords, industries, or through an interest survey.

[Glassdoor API](#), *Glassdoor, Inc.*

This application program interface (API) is a free tool for developers to integrate Glassdoor's job database into their applications. It is lightweight REST API that responds to http requests with JSON.

[LinkedIn Developers](#), *LinkedIn Corporation*.

This page provides a suite of APIs and software development kits (SDKs) to develop a number of LinkedIn features (e.g., authentication, job application, sharing tools) into applications.

[RIASEC Inventory](#) (*Holland Codes*), *Jist Publishing*.

This document provides an overview and guide to administering the RIASEC Inventory, also known as the Holland Codes. The US Department of Labor has been using the RIASEC model in the “Interests” section of its free online database, O\*NET, since its inception during the late 1990.

## **CAREER AND TECHNICAL EDUCATION (CTE)**

With more than 15 million students engaged in career and technical curricula across the U.S., the Department of Education is focused on ensuring that career seekers are optimally prepared for the high-skill technical jobs of today and tomorrow. The “skills gap” is particularly pronounced in advanced manufacturing, where millions of jobs go unfilled each year.

[Education to Employment: Designing a System That Works](#), *Diana Farrell, and Dominic Barton, McKinsey & Company.*

This report reviews a survey of 8,000 employers, education providers, and students regarding job preparedness and skills preparation. The report also includes insights from reviewing successful CTE curricula.

[What is CTE?](#), *Association for Career and Technical Education.*

Here the Association for Career and Technical Education provides a primer about the history of CTE and how it benefits high school students, college students, adults, businesses, and the economy.

[The National Career Clusters® Framework](#), *National Association of State Directors of Career Technical Education Consortium.*

The National Career Clusters Framework provides a vital structure for organizing and delivering quality CTE programs. In total, there are 16 Career Clusters in the National Career Clusters Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and career.

[Career and Technical Education, 5 Ways that Pay](#), *Anthony P. Carnevale, Tamara Jayasundera, Andrew R. Hanson, Georgetown University.*

This report details the 29 million “middle jobs” – jobs that pay middle class wages for workers without a four-year degree and the five major pathways that lead to those jobs. The report also details five major sub-baccalaureate CTE pathways: employer-based training, industry-based certifications, apprenticeships, postsecondary certificates, and associate’s degrees.

## **CAREER GUIDANCE AND COUNSELING**

Career counseling today is severely constricted by the ratio of school counselors to students, which averaged 1:471 in 2012. Students are lucky to see their counselor for 30 minutes a year and are frequently left overwhelmed and frustrated as they navigate crucial career decisions.

[True North: Charting the Course to College and Career Readiness](#), *Mary Bruce and John Bridgeland, College Board Advocacy & Policy Center.*

Based on an annual survey of over 2,800 high school counselors, this report emphasizes the potential of counselors and to accelerate student achievement and illustrate, the barriers counselors face today, and strategies to pass these barriers.

[Career and College Counseling in America's High Schools](#), *Patricia M. McDonough, National Association for College Admission Counseling.*

This paper reviews the evidence on what students need to do when preparing for college, the history of school counseling, counselors' work and availability, and research evidence on good college counseling. It also explains how counselors are structurally constrained from doing their job.

[Effective Counseling in Schools Increases College Access](#), *The National Association for College Admission Counseling.*

This research report explores how counselors can positively affect students' postsecondary aspirations and attainment, how counseling can have a significant impact on college access for all students, and how increasing the number of counselors available to students is one of the top three reforms needed to improve college access.

## **TECHNOLOGY AND STUDENT DATA PRIVACY**

Numerous federal regulations govern the collection and use of student data. While these regulations are in place to protect students rather than constrain developers, it is important to be familiar with how the regulations (including Family Educational Rights and Privacy Act and Children's Online Privacy Protection Act) impact the design and development of educational simulations.

[Ed Tech Developer's Guide](#), *U.S. Department of Education.*

The U.S. Department of Education recently released this primer for software developers, startups, and entrepreneurs to centralize and simplify resources on regulatory compliance. This developer toolkit includes information on designing for educational customers, procurement, interoperability, compliance, and other useful information.

[Model Terms of Service Guidance](#), *Privacy Technical Assistance Center.*

The Privacy Technical Assistance Center (PTAC) serves as a "one-stop" resource for education stakeholders to learn about data privacy, confidentiality, and security practices related to student-level longitudinal data systems and other uses of student data.

## **DISCLAIMER**

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