CTE BULLETIN
November 2021, Vol. II

Attention: High School Principals & CTE Administrators

Do you have a CTE teacher who promotes high student engagement, hands-on activities, or other reasons why the CTE teacher should be nominated? If so, please submit your nomination by close of business on November 19, 2021. Click here to submit this month's nomination.

Kidwind Challenge

Interested in hosting a KidWind Challenge in your area? Sign Up for the Newsletter!
Support the 2021-2022 KidWind Challenge Season!

Planning a KidWind Challenge

Join KidWind for a 2-hour course on how to hold a KidWind Challenge in your school, classroom or regional school district. This workshop covers the following topics.

-Timelines
-Fundraising
-Outreach
-Materials Required
-Support Provided
-Online Tools
-Questions

At the end of this event, you will know how to hold a KidWind Challenge at whatever level!
All participants get a KidWind T-shirt! Sign Up Here!
For more information, email Michael Arquin at michael@kidwind.org.

NEWT

RICE UNIVERSITY
Office of STEM Engagement

NANOENVIRONMENTAL ENGINEERING
for TEACHERS SPRING 2022
at Rice University, Arizona State University &
The University of Texas at El Paso

ABOUT NEET SPRING 2022
Thursdays | January 13–April 28, 2022
Rice: 6–9pm CT/ASU & UTEP: 5–8 MT

The Nanotechnology-Enabled Water Treatment (NEWT) NanoEnvironmental Engineering for Teachers (NEET) course is designed for AP Environmental Science, Environmental Systems, and Biology teachers in the Houston, TX; El Paso, TX; and Phoenix, AZ areas.
NEET guides participants as they:

- Think critically about current teaching practices
- Improve their understandings of AP and state standards
- Explore best practices in educational pedagogy
- Learn about NEWT research conducted at Rice University, ASU, Yale University, and UTEP
- Apply problem-based learning and engineering practices in the classroom

Particpants also receive:

- Strategies to engage students in the field of water sustainability
- Engineering Design and Project-Based Learning focused PD
- Lectures from NEWT faculty on cutting-edge NEWT research
- $600 stipend, 45 sustained CPE hours, & $150 for materials
- 6 hours of G/T PD credit subject to district approval
- An optional 3 hours of Rice graduate credit (requires submitting a special application plus a $150 registration fee)

Interested

Apply at research.rice.edu/rstem/neet
For more on NEWT, visit newtcenter.org

Questions
Christina Crawford | Associate Director for Science & Engineering
Rice Office of STEM Engagement | 713-348-4761 | cc45@rice.edu

NSF | RICE | ASU | UTEP | Yale

NanoEnvironmental Engineering for Teachers (NEET) accepts applications from Houston area engineering, science, and math teachers to understand authentic, sustainable project-based learning. The course comes with a $600 stipend, free college graduate credit or CPE hours, and classroom materials.
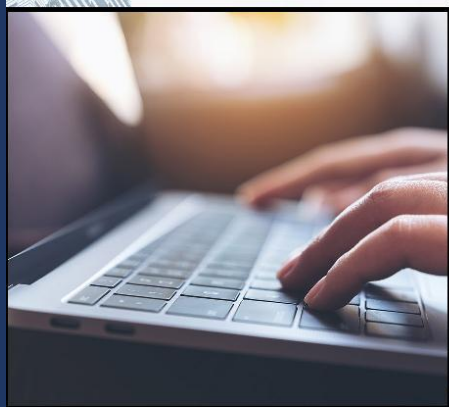
→ Application Link

→ Webpage Link

Information on our paid summer programs will be released in the following weeks.
Rice would like to talk to anyone interested at HISD about the programs. If you have questions, please contact Christina Crawford, Associate Director for Science & Engineering , Rice Office of STEM Engagement at cc45@rice.edu.

Skill up or start your next career with SMLA.

SMLA

Microsoft
Nov 1st

Employability Skills,

Employment Placement

Assistance,

No Cost Training

CompTIA
Oct 25 Evening

Logistics, CPT, CLT
Nov 8 Evening

Contact us to
find out more:

mysmla.com
info@mysmla.com
713-977-0566

Learn best practices for preventing targeted school violence.

The following sessions provided by Region 4 Education Service Center in collaboration with our community partners, the U.S. Department of Homeland Security and the U.S. Secret Service, are designed to help schools and districts learn ways to reduce incidences of school violence.
These trainings are specifically designed to aid school safety personnel, district and campus administrators, counselors, psychologists, social workers, school district police officers, and community members working in or with school safety.

Community Awareness Briefing (CAB)
U.S. Department of Homeland Security's Center for Prevention Programs and Partnerships

The Community Awareness Briefing (CAB) is designed to help participants develop an understanding of violent extremist recruitment tactics and explore ways to prevent such threats at the local level. The CAB provides the introductory knowledge needed to successfully prevent targeted violence and terrorism. The main goal of the CAB is to raise awareness of how violent extremist movements recruit individuals to commit violent or illegal acts, and negatively impact these individuals, their families, and their communities.

Date: November 17, 2021
Time: 9:00 a.m. - 11:00 a.m.
Credits: 2 CPE
Fee: $0
Location: Virtual via Zoom
Presented by representatives from the U.S. Department of Homeland Security

REGISTER HERE

Averting Targeted School Violence:
A U.S. Secret Service Analysis of Plots Against Schools

The United States Secret Service National Threat Assessment Center's (NTAC) latest study (March 2021) examines 67 disrupted plots against K–12 schools from 2006–2018 planned by current or recently former students.

This study reviews how plots were discovered and mitigated, such as motives, targeting, planning, and communication and behavior exhibited prior to plot discovery. In this session, NTAC also addresses and presents on the diversity of stressors, home-life factors, and histories of behavioral or emotional issues.

Date: November 17, 2021
Time: 1:00 p.m. - 3:00 p.m.
Credits: 2 CPE
Fee: $0
Location: Virtual via Zoom
Presented by representatives from the U.S. Secret Service

REGISTER HERE

Code.org - Equity in AP CS Principles Program

The guided program will:

- Help schools decide whether AP Computer Science Principles is a good fit.
- Help schools navigate the logistics of creating and adding a new course, and equitably recruit student enrollment for the first year of the course and beyond.
- Provide new-to-CS teachers a rigorous professional learning program
- Provide students a strong curriculum to help them not only complete the course but pass the AP exam.
- Build internal capacity for a strong computer science program for future years.

Criteria:

- School serves 9th-12th grade students and does not currently offer CS Principles.
- School leaders commit to participating in all tracks of the Equity in AP CS Principles Program
- Will offer AP CSP in 2022-23
- Serves student populations that are underrepresented in CS.

Program is available at no cost to select schools, thanks to a generous research grant from the federal Department of Education.

Sign up for the first Welcome Workshop - Information Session on December 14th here! This **UT Austin Equity in AP CSP Program Brochure** is available for distribution.

If you have any questions, please reach out to Amy Carrell.

Amy Carrell, Director for Outreach
The University of Texas at Austin | TACC | Expanding Pathways in Computing (EPIC) | acarrell@tacc.utexas.edu | 512-577-2901

Microsoft

TEALS Program
Computer science in every high school

TEALS Webinar
November 9, 2021
4:00pm (CST)

Teach HS Computer Science with the Support of Industry Volunteers

The Microsoft Philanthropies TEALS Program provides a short-term solution to the teacher shortage and helps schools build a long-term and sustainable computer science program by partnering teachers new to computer science with industry volunteers who have computer science content expertise.

Teachers in these partnerships learn computer science while team-teaching with volunteers until they are comfortable teaching independently.

In this webinar, participants will hear about the TEALS approach and learn about the process to apply for TEALS support in the 2022-23 school year.

If you have any questions, please reach out to Amy Carrell.

Amy Carrell, Director for Outreach
The University of Texas at Austin | TACC | Expanding Pathways in Computing (EPIC) | acarrell@tacc.utexas.edu | 512-577-2901

WeTeach Computer Science Virtual Counselor & Administrator Webinar

November 18, 2021
9:00am (CST)

Computer Science Training for Counselors & Administrators participants will learn about trends and opportunities in computer science, and how your district can open doors to these opportunities for ALL your students.

Recent policy and funding changes in Texas will be discussed as well as resources for supporting your district and teachers to build a robust and diverse CS program. This session will help school teams appreciate what computer science is, what new courses involve, and how these count toward graduation and fit with the larger school program.

Counselors are influencers and gatekeepers. They counsel and encourage students in their education and career aspirations, advise on course selections, and expose students to occupations through career fairs and internships. If today's students are to get the exposure and encouragement, they need to pursue computing, it is essential that counselors have the knowledge and resources they need to guide effectively.

If you have any questions, please reach out to Amy Carrell.

Amy Carrell, Director for Outreach
The University of Texas at Austin | TACC | Expanding Pathways in Computing (EPIC)
| acarrell@tacc.utexas.edu | 512-577-2901

Bring Computer Science To Your School

Why Computer Science?

Computer science is fundamental for every student's success

Six different studies show: children who study computer science...

perform better in **other subjects**

excel at **problem-solving**

are 17% more likely to **attend college**

More about the studies: bit.ly/6studies

90% of parents

want their children to learn CS

Students love it!

- Students rank CS as their third favorite subject behind the arts.

- CS has climbed to the 4th most popular STEM major for college-bound students

Open Up Future Possibilities for Your Students

CS teaches critical thinking and problem solving, collaboration, curiosity and creativity - skills that all employers seek.

A CS major can earn 40% more than the college average and it's the **2nd highest paying degree**

58% of all new jobs in STEM are in computing

67% of computer science jobs are outside of the tech sector. Computer occupations are **the most widely represented across industries**

Statistics Data Sources: https://bit.ly/codeorg-cs-stats

Code.org Equity in AP CS Principles Program

What is Computer Science Principles?

Designed for beginners, Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Students will:

- Solve problems about encoding and transmitting data.
- Get hands-on experience with concepts like binary and pixels, text compression, and more.
- Use the JavaScript language to create a series of real, shareable apps.

What you get from our Equity in AP CS Principles program

This free program is designed to support administrators and counselors as they collaborate to develop the AP CS Principles program in their schools.

Your school will be prepared to provide equitable access to computer science for ALL of your students, including young women, students from underrepresented groups, and students from rural communities.

Administrator Leadership Program
Supports administrators through decision making and logistics of course setup

Counselor Leadership Program
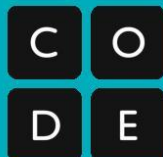Supports equitable recruitment and retention of all students

Professional Learning Program (Teachers)
Prepares new-to-CS teachers to teach AP CS Principles equitably

AP CS Principles Curriculum (Students)
Engages students equitably through CS curriculum

Administrators and Counselors:
Want to bring computer science to your school?

Sign-up for the free Welcome Workshop!

Regional Partner: **The University of Texas at Austin, Amy Carrell**
Welcome Workshop: **December 14, 2021 from 2-3:30pm**
Enroll: **https://studio.code.org/pd/workshops/11146/enroll**

virtualjobshadow®

INTERACTIVE CAREER EXPLORATION & READINESS

Login Instructions for Houston Independent School District

Step 1.

Log into device using HISD network ID and password.

Step 2.

Access the PowerUp "HUB."

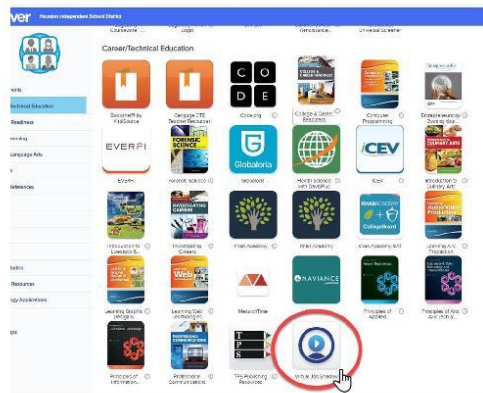## Step 3.

Access Digital Resources from the HUB.

Step 4.

Select Log in with Active Directory

(some 6th grade students may have a badge.)

Step 5.

Click on Virtual Job Shadow icon in the 'Career/Technical Education' category.

virtualjobshadow
interactive career exploration

VJS FlexLessons Menu

We want students' and individuals' introduction to VirtualJobShadow.com to be streamlined and seamless, so we created a menu of curated FlexLessons Packages for you to choose from! Our goal is to get students and individuals engaged from the start so they can begin their career exploration and planning immediately!

The best part? When students and individuals log in to VirtualJobShadow.com, the assignments will already be waiting for them! You don't have to do a thing! To make it even easier, no matter the Package or *a la carte* choices made, we automatically pre-assign these three assignments: Introduction to VirtualJobShadow.com, Scavenger Hunt, and Career Trivia!

Curated FlexLessons Packages:

• Introduction Package (automatically assigned)	o CTE Package	o TRIO Package	o Transition Planning and IEP Package
• Introduction to VirtualJobShadow.com • Career Trivia • Scavenger Hunt	• Careers and YOUR Interests • Work-Based Learning • Understanding Problem Solving • Soft and Hard Skills	• Understanding Grit • Understanding Growth Mindset	• Introduction to Your Transition Plan - Part 1 • Introduction to Your Transition Plan - Part 2 • The Power of Self-Determination

o Middle School Package	o High School Package	o Pre-Employment Transition Services Package	o Workforce Development Package
• Goal Setting • Understanding Patience • Soft and Hard Skills • Collaboration	• My Plan Outline • Initiative • Understanding Failure • Time Management • Postsecondary Planning	• Job Exploration and Career Awareness • Work-Based Learning • Postsecondary Planning • Workplace Readiness Skills • Self-Advocacy	• Careers and YOUR Interests • What to Expect in an Interview • Qualities Employers Are Seeking • Building Your Cover Letter • Building Your Resume

virtualjobshadow
interactive career exploration

VJS FlexLessons Menu

A La Carte Assignments Menu:

o Careers 101	o Soft Skills	o Social and Emotional
o Goal Setting o Careers and YOUR Interests o Job Exploration and Career Awareness o Postsecondary Planning o Career Trivia o Postsecondary Education o Qualities Employers Are Seeking o Technical Workplace Terminology o The STEM Career Cluster o Workplace Readiness Skills	o Communication o Critical Thinking o Collaboration o Citizenship o Creative Thinking o Initiative o Time Management o Soft Hard Skills o Leadership o Self-Advocacy	o Understanding Grit o Understanding Growth Mindset o Understanding Patience o Understanding Problem Solving o Understanding Failure o Understanding Flexibility o Self-Awareness and Empathy o The Power of Self-Determination o Handling Constructive Criticism

o Job Preparation	o Inclusive Practices	o Additional Titles
o How To Fill Out A Job Application o What to Expect in an Interview o Building Your Cover Letter o Building Your Resume o Understanding the Importance of Your Resume o Preparing for an Informational Interview o What to Expect in an Interview o Personal Presentation Is Key to Making A Good First Impression o Job Seeking Skills: Resumes	o Spotlight on Disabilities in the Workplace o Spotlight on Diversity and Inclusion o Introduction to Your Transition Plan - Part 1 o Introduction to Your Transition Plan - Part 2 o Working Through COVID -19	o Exploring Military Careers o Introduction to VirtualJobShadow.com o Scavenger Hunt o University of YouTube o University of Youtube: Criticaly Evaluating Your Sources o My Plan Outline

Virtual Job Shadow: Career Exploration

On-Demand
Where: HISD OneSource (asynchronous)

Audience
Career and Technical Educational (CTE) Middle School Teachers
Career and Technical Educational High School Teachers

Participants will see how VirtualJobShadow.com empowers individuals to discover, plan and pursue their dreams with our unique video-based career planning platform. See how interactive tools help students and job seekers develop career paths based on choice, not chance. CTE teachers in middle and high school will see how to motivate students to take control of their futures by planning for careers today. Our engaging job shadowing, and career advice videos take career exploration to a whole new level by connecting academics to the real world. Take this course at any time.

OneSource Course ID# 1454125

Click here for a tutorial on how to enroll courses in OneSource.

HISD Contact Information
Drew Thurman, Senior Manager, College/Career Guidance
DTHURMAN@HoustonISD.org

HISD | College Readiness
HIGHER EXPECTATIONS. HIGHER EDUCATION.

November 8th commemorates the anniversary of the Higher Education Act of 1965. High schools, colleges, and universities across the country are encouraged to celebrate the successes of ALL first-generation faculty, staff and students. During the week of November 8th, the HISD College Readiness Department will kick off the "First to Launch" campaign. Join us as we will recognize HISD's students, staff, and alumni who are the first in their families to attend college. We are excited to celebrate their many accomplishments!

If you have any question about the "First to Launch" campaign, please contact Ruby Rivera, College Readiness Senior Manager at rrivera@houstonisd.org.

Join us as we celebrate our First-Gen students and staff and fill out this Google link.

Ways To Participate & Celebrate First-Gen Week
Events held as part of this celebration do not have to be expensive, time-consuming endeavors.

Here are some ways your area can participate:

- Already have a departmental event or meeting scheduled that week (or close to it)? Make it a themed event and feature the topic of First-Generation students. Do you and your colleagues have a First to Launch highlight? If so, share on social media. Don't forget to use hashtags #HISDFirst2Launch #HISDFirstGen

- Be creative! Events may be held virtually- host a trivia night, virtual open mic, online workshop...anything that brings students and staff "together" to celebrate.

- Host a faculty/student "First to Launch" hour and invite students to share their thoughts on what it is like to be a First-Gen student. Host an informational session that specifically addresses issues that First-Gen students may encounter or may find of particular interest.

- Schedule a training session to help faculty/staff in your area learn how to better support First-Generation students. Invite students to panel discussions, webinars, from local colleges and universities. Highlight alumni and community members who are First to Launch.

- Send an email to your department/students that recognizes the many accomplishments of your First-Gen faculty, staff, and students (or alumni). Highlight students completing Admissions & Financial Aid Applications who will be First-Gen in their families.

- Create a bulletin board highlighting campus staff, students, parents, and First-Gen alumni. Create a "First to Launch Banner" have First Gen students sign banner and share to social media and College Corner

Want to share photos & updates?
Use #HISDFirst2Launch #HISDFirstGen and tag @HISD2College and @HoustonISD to participate in district-wide social media campaigns. In addition, you can also tag @FirstgenCenter.

We are so excited to see you all at the Gaylord Texan Resort in Dallas, Texas! At CERTIFIED 2022 it will be more important than ever to share strategies and teaching methods that you have developed over the last few months in the classroom, hybrid, or online!

Are you an innovative teacher who loves to go above and beyond the call of duty? Have you implemented changes recently that have led to classroom success? Do you run a successful certification program? Is your school forging new paths or setting new standards in excellence that you just can't wait to tell others about? If you answered "yes" to any of the above questions, then you may be exactly who we are looking for! The Call for Sessions for CERTIFIED 2022 has officially opened, and we want to hear from you.

In its eighth year, Certiport's CERTIFIED Educator Conference is the premier event for exploring the full promise and potential of certification testing in the classroom or at home. The need for excellent sessions from expert educators is at an all-time high. Submit a session proposal for your chance to be a part of one of the most exciting and fastest-growing events designed specifically for educators.

Fill out the form to submit your proposal for CERTIFIED 2022

Supporting CTE with Digital Learning Solutions

POINTFUL EDUCATION

While Career & Technical Education (CTE) is not a new practice for most schools and districts, many educators are turning to digital learning solutions to **enhance** and **expand** career-related offerings to students. Digital learning offers flexibility for students to learn in an environment that is personalized to their needs. With high-quality digital learning solutions, instruction is presented in multiple modalities; including text, visuals, videos, interactivities, and project-based learning (PBL) opportunities.

Here are three (3) key advantages to incorporating digital learning into your CTE programs.

1. **Support teachers with quality curriculum**

   Teachers need resources they can count on to ensure high-quality learning with the flexibility to customize the learning experience.

2. **Expand options for more students**

   All students deserve to be supported in their learning goals. Whether that means giving them options to earn industry-recognized credentials or opportunities to explore relatable career paths.

3. **Enhance learning in the classroom**

   With quality digital learning options available in the classroom, students will learn through blended learning while exploring topics that interest them at their own pace.

POINTFUL
EDUCATION

Are you looking for digital learning solutions for your CTE programs? Do innovative electives that encourage career exploration sounds like something that would benefit your students?

The solution...

Pointful Education online courses offer students opportunities to learn about topics that will prepare them for their future!

Some of our top courses include:

- Adobe Illustrator, InDesign, and Photoshop

- Architectural Design I & II (AutoCAD Certification Courses)

- Career Exploration in Healthcare

- Drones Remote Pilot Certification Course

- Early Childhood Education I & II

- Introduction to Education & Teaching

- Project Management Certification Course

Schedule a no-obligation demo today!

Pointful Education is an approved HISD Vendor.

www.pointfuleducation.com