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Contact: P. Andrews-Keenan
312-206-2821
PKeenan1@comcast.net
Twitter: @PKeenan1

Chicago Pre-College Science & Engineering Program highlights Catalyze Tech Report where CEO's pinpoint 8th grade algebra as pivotal in their development

White House Summit STEMM Equity and Excellence initiative to put \$1.2B into DEI resources

(CHICAGO) – **Chicago Pre-College Science and Engineering Program (ChiS&E)**'s offers highly sought after, free programs in mathematics, science, engineering, computer programming, advanced robotics, chemistry and physics. Foundational to CHIS&E's offering has been its robust focus on Algebra. According to research conducted by **Catalyze Tech**, a new initiative to align the tech industry around collective action for diversity, equity, and inclusion (DEI), called the Act Report, CEO's cite mastering 8th grade algebra as being pivotal to their career success.

The findings were highlighted during the **White House Summit on Equity and Excellence in Science, Technology, Engineering, Mathematics, and Medicine (STEMM)** held on December 12th. The goal of the summit was to announce the Biden administration's commitment to equity for people who have been historically underserved - people of color, rural communities, women, people with disabilities LGBTQ - and power a more just, inclusive, and competitive science and technology enterprise. eliminating systemic barriers to participation in STEMM and ensuring that all of the American public can contribute to and benefit from science and technology.

During the summit, panelist **Baroness Oona King**, vice president of Diversity, Equity & Inclusion, Snap, Inc. highlighted the reports key finding in answering 'what is the one thing that would open computer science education for underrepresented groups more than anything else?' The answer was eighth grade algebra.

Thanks to the Kellogg Foundation ChiS&E has developed a curriculum that introduces topics in algebra for parents and children in grades K-3. 4th, 5th, 6th, and 7th grade classes include algebra content and their summer enrichment program (7th, 8th 9th) includes topics in Algebra. Their "**Math Booth Camp**" held summers at **Notre Dame** focuses on algebra and they host a Saturday class "**Algebra Topics for Calculus**".

White House Office of Science and Technology Policy (OSTP), in collaboration with the **American Association for the Advancement of Science** and the **Doris Duke Charitable Foundation**, hosted the White House Summit on STEMM Equity and Excellence. The five part action plan from government philanthropy industry education research and community organizations totals more than \$1.2 billion.

"Our organization was founded to increase the number of historically underrepresented African American and Latino students and motivate and academically prepare them to pursue careers in science, technology, engineering and mathematics (STEM)," said **Kenneth Hill**, president & CEO. "This validation by the White House, of our decades of efforts is affirming, as we continue our work tackling the underlying root causes that lock underrepresented groups out of vital careers in STEMM.



ChiS&E's rigorous preparatory program is available at no charge to CPS students in grades K – 12 and includes internship opportunities at the University of Illinois Urbana and the University of Chicago. To learn more or support ChiS&E, visit www.chiprep.org.

About the White House STEMM Initiative

The White House Summit on STEMM Equity and Excellence will bring together people from across government and businesses, civic, education, higher-ed, nonprofit, community-based, and philanthropic organizations committed to working collaboratively to build a more equitable and excellent STEMM ecosystem.

About ChiS&E

The mission of the Chicago Pre-College Science and Engineering Program (ChiS&E) is to increase the number of historically underrepresented African American and Latino students who are motivated and academically prepared to pursue careers in science, technology, engineering and mathematics (STEM). ChiS&E provides highly-engaging, age appropriate hands-on science, mathematics, computer science and engineering activities and promotes careers in science and engineering. The program is a partnership between Chicago Public Schools (CPS) and the University of Illinois at Urbana-Champaign Colleges of Education and Engineering. Other partners include the LBJ STEM and Research Center at Texas State University, Riverbend Mathematics Center (South Bend Indiana), and the University of Chicago School of Molecular Engineering. The program includes the following classes: Kindergarten-Little Civil Engineer, First Grade-Little Chemical Engineer, Second Grade-Little Electrical Engineer, Third Grade-Little Mechanical Engineer, Fourth Grade- Little Structural Engineer, Fifth Grade- Geometry, Sixth Grade- Additional topics in Geometry, Seventh Grade- Physics and Mathematics, Eight Grade-Computer Science-Match Program(MIT), Ninth and Tenth Grades- Algebra topics for Calculus, Eleventh Grade-Physics and Eleventh and Twelfth Grade- Topics in Bioengineering and mentorship. In addition to its Saturday programming, ChiS&E provides several summer programs. They include the following: four week summer program for rising 6th 7th and 8th graders at Langton Hughes Elementary School (Mathematics- Algebra, Engineering- Bots, Raspberry Pi-Computer Programming), two week summer program for rising 9th and 10th graders at with a focus on engineering problem solving at the University of Illinois at Urbana and a two week summer program at Notre Dame University that focuses on mathematics and engineering.

ChiS&E is a 501©3 tax exempt organization.

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