



For Immediate Release
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Contact: Megan Bedera
775-997-5690
Megan@AmplifyRelations.com

MORGANTOWN TEEN AWARDED \$25,000 SCHOLARSHIP FOR INNOVATION TO INCREASE EFFECIENCY OF COMPUTER SIMULATIONS FOR DRUG DEVELOPMENT

Pavan Subramani Named 2026 Davidson Fellows Scholarship Winner

MORGANTOWN, W.Va. — Pavan Subramani, 17, of Morgantown, has been awarded a \$25,000 Davidson Fellows Scholarship for the science project, *The Hybridization of Generative Diffusion Models with Molecular Dynamics Simulations: A Novel Method to Accelerate Drug Discovery*. The Davidson Fellows Scholarship is one of the nation's most prestigious honors for students 18 and younger.

"To me, being selected as a Davidson Fellow recognizes that the research I am doing is valuable and encourages me to continue scientific research," Subramani said. "The scholarship also allows me to pursue the higher education I will need to do this."

For his project, Subramani used artificial intelligence to increase the speed of computer simulations used in computational drug discovery while maintaining their accuracy. His method makes it possible to sample important molecular configurations more efficiently, allowing researchers to study events that conventional simulations may rarely observe. By making molecular simulations faster and more efficient, his work could help researchers better understand how drugs interact with proteins and accelerate the development of new medicines.

Subramani, a rising high school senior, plans to continue his studies in chemistry and applied physics and pursue a career in research. He also founded The Substance Safety Project, which distributes drug disposal packets and provides educational workshops.

"The Davidson Fellows continue to demonstrate what young people can accomplish when curiosity, determination and innovation come together," said Bob Davidson, founder of the Davidson Institute. "The 2026 Fellows have pursued challenging questions and developed meaningful work with the potential to make a lasting difference in their fields and communities. We are proud to recognize their extraordinary achievements."

The Davidson Fellows Scholarship program offers college scholarships to students 18 or younger who have completed significant projects that have the potential to benefit society in the fields of science, technology, engineering, mathematics, literature and music. The Davidson Fellows Scholarship has provided more than \$11.4 million in scholarship funds to 490 students since its inception in 2001, and has been named one of the most prestigious undergraduate scholarships by [U.S. News & World Report](#). It is a program of the Davidson

Institute, a national nonprofit organization headquartered in Reno, Nev., that supports profoundly gifted youth.

About the Davidson Institute

Founded by Bob Davidson in 1999, the Davidson Institute recognizes, nurtures and supports profoundly intelligent young people and provides opportunities for them to develop their talents to make a positive difference. The Institute offers support through a number of programs and services, including the Davidson Fellows Scholarship and the [Davidson Academy of Nevada](#). For more information about the 2026 Davidson Fellows, please visit: [DavidsonFellows.org](#).

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High-resolution photos are available at
[DavidsonFellows.org](#)