



Davidson Institute
Fellows Scholarship

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**MADISON TEEN AWARDED \$10,000 SCHOLARSHIP FOR
DEVELOPMENT OF PERSONALIZED IMPLANTABLE SCAFFOLDS FOR
DEEP WOUND TREATMENT**

Ashwin Prabhakar Named A 2022 Davidson Fellows Scholarship Winner

Madison, Ala. – The Davidson Fellows Scholarship Program has announced the 2022 scholarship winners. Among the honorees is 17-year-old Ashwin Prabhakar of Madison. Prabhakar won a \$10,000 scholarship for his project, *Personalized Implantable Scaffolds for Wound Treatment and Management*. He is one of only 21 students across the country to be recognized as a 2022 scholarship winner.

“To me, being a Davidson Fellow means that I am part of a passionate group focused on making impactful changes in the world using their unique backgrounds and voices,” said Prabhakar. “I am honored and humbled to be recognized for my engineering project along with these outstanding and talented individuals.”

For his project, Prabhakar developed a rapid and cost-effective method to produce personalized implants for treatment and management of wounds using a 3D imaging system, model generator, and scaffold printing system. The implants can monitor the wound environment for infection, and deliver medication. The process for generation of personalized scaffolds for deep cavity wounds has great potential to significantly reduce healthcare costs and patient treatment time.

Prabhakar is a rising senior at Bob Jones High School. In the future he plans to study engineering with the eventual goal of developing engineering solutions to solve real-world problems. In his free time, Prabhakar enjoys participating in Greenpower racing, where teams build and race single-seat electric cars to participate in 90-minute endurance races throughout the season.

“This year’s class of Davidson Fellows Scholarship recipients continue to find new and innovative ways to pursue their educational and research journeys while striving to solve some of the world’s most vexing problems,” said Bob Davidson, founder of the Davidson Institute. “These students have not just overcome the challenges of doing significant work during a pandemic; our Fellows have embraced the new opportunities that have come from creative, outside-the-box thinking to use technology to expand their networks of mentors and access new sources of information and data, resulting in a very diverse portfolio of projects.”

The 2022 Davidson Fellows will be honored during a reception at the Massachusetts Institute of Technology and with a virtual project presentation ceremony in September 2022.

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The Davidson Fellows Scholarship program offers \$50,000, \$25,000 and \$10,000 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 \$9 million in scholarship funds to 4,07 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 2022 Davidson Fellows, please visit: [DavidsonFellows.org](#).

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