

Helicoid Industries Inc. Granted One of 259 Grants Totaling \$53Million Nationwide to Support Scientific Innovation in Clean Energy Development and Climate Solutions

Indio, California, May 17, 2022 - U.S. Energy Secretary Jennifer Granholm today announced that Helicoid Industries Inc. will receive \$198,991.00USD as part of 259 Department of Energy grants totaling \$53 million to 210 small businesses in 38 states. The awards include projects relating to particle accelerators and fusion technology, applied nanoscience, quantum information applications, and dark matter research along with a wide range of other efforts.

“Supporting small businesses will ensure we are tapping into all of America’s talent to develop clean energy technologies that will help us tackle the climate crisis,” said Steve Binkley, Acting Director of the DOE’s Office of Science. “DOE’s investments will enable these economic engines to optimize and commercialize their breakthroughs, while developing the next generation of science leaders and ensuring U.S. scientific and economic competitiveness that will benefit all Americans.”

Through the SBIR/STTR program across the federal government, small business powers the U.S. economy and generates thousands of jobs, both directly and indirectly, the DOE notes. DOE Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards aim at transforming DOE-supported science and technology breakthroughs into viable products and services. The awards also support the development of specialized technologies and instruments that aid in scientific discovery.

“We are delighted to partner with Helicoid Industries” says Dr. Lawrence Drzal, Director of the Composite Materials and Structures Center and University Distinguished Professor of Chemical Engineering and Materials Science at Michigan State University. “Helicoid has a unique approach to incorporating natural fibers into structural composites that will achieve a very high level of performance and ultimately increase the use of biobased composites in transportation and other industries.”

Helicoid Industries Inc. will receive \$198,991.00USD for their project: Multiscale Bioinspired Enhancement Of Natural-Fiber Composites For Green Vehicles.

“We are very pleased to take an active role on the DOE pathways to decarbonizing America’s transportation” says Dr. Lorenzo Mencattelli, Director of R&D at Helicoid. “Natural-fiber composite materials are already playing a crucial role in achieving a more sustainable transportation and through biomimicry we can unlock the potential to deliver unsurpassed performance of these materials. This will open new avenues for high-volume and high-performance green vehicle technologies. This SBIR grant will accelerate Helicoid Industries on-going development for a sustainable transportation industry, to ultimately demonstrate the benefits of biomimetic composite innovation and technology in natural-fiber composite products.”

Helicoid Industries is committed to developing solutions that reduce the environmental impacts of composite products from their initial manufacturing to their end of useable life.

To learn more about Helicoid Industries Inc., visit www.helicoidind.com.

More information about all the projects announced by DOE today is available at the following link: <https://science.osti.gov/sbir>

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ABOUT HELICOID INDUSTRIES

Helicoid Industries is a California based startup founded in 2019 by a seasoned team of experts working to commercialize the Helicoid™ biomimetic fiber-reinforced composite technology. Helicoid Industries both licenses the technology to composite producers, as well as produces preform solutions. The Helicoid™ technology emulates the structure found in the Mantis shrimp,



which is one of the toughest structures in the world providing incredible impact resistance and weight savings. The company is finalizing a \$5 million seed round financing for future prototype manufacturing and additional biomimicry research initiatives. Media Contact for Helicoid Industries:

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