

HyQ Research Solutions, LLC Awarded Competitive Grant from the National Science Foundation

Small Business Innovation Research Program Provides Seed Funding for R&D

College Station TX, May 2020 – HyQ Research Solutions, LLC has been awarded \$225,000 through a National Science Foundation (NSF) Small Business Innovation Research (SBIR) grant to conduct research and development (R&D) work on High Dielectric Constant (HDC) materials for low field clinical MRI.

HyQ Research Solutions, LLC (HyQRS) develops novel materials and structures to increase the speed and resolution of Magnetic Resonance Imaging (MRI). Over the past five years we have designed and fabricated High Dielectric Constant (HDC) materials for human brain research. The goal of the proposed SBIR project will translate the research results to low field clinical 1.5 Tesla (T) MRI scanners.

“NSF is proud to support the technology of the future by thinking beyond incremental developments and funding the most creative, impactful ideas across all markets and areas of science and engineering,” said Andrea Belz, Division Director of the Division of Industrial Innovation and Partnerships at NSF. “With the support of our research funds, any deep technology startup or small business can guide basic science into meaningful solutions that address tremendous needs.”

“We are grateful to have been selected for this competitive grant and we are excited about the opportunity to expand our work into the clinical realm. With our technology, low field MRI can be accelerated by increasing the Signal-To-Noise Ratio (SNR). This could dramatically reduce cost and improve accessibility of MRI.” said Sebastian Rupprecht, CEO of HyQ Research Solutions, LLC.

Once a small business is awarded a Phase I SBIR/STTR grant (up to \$256,000), it becomes eligible to apply for a Phase II grant (up to \$1,000,000). Small businesses with Phase II grants are eligible to receive up to \$500,000 in additional matching funds with qualifying third-party investment or sales.

Startups or entrepreneurs who submit a [three-page Project Pitch](#) will know within three weeks if they meet the program’s objectives to support innovative technologies that show promise of commercial and/or societal impact and involve a level of technical risk. Small businesses with innovative science and technology solutions, and commercial potential are encouraged to apply. All proposals submitted to the NSF SBIR/STTR program, also known as America’s Seed Fund powered by NSF, undergo a rigorous merit-based review process. To learn more about America’s Seed Fund powered by NSF, visit: <https://seedfund.nsf.gov/>

About the National Science Foundation's Small Business Programs: America’s Seed Fund powered by NSF awards \$200 million annually to startups and small businesses, transforming

scientific discovery into products and services with commercial and societal impact. Startups working across almost all areas of science and technology can receive up to \$1.75 million to support research and development (R&D), helping de-risk technology for commercial success. America's Seed Fund is congressionally mandated through the Small Business Innovation Research (SBIR) program. The NSF is an independent federal agency with a budget of about \$8.1 billion that supports fundamental research and education across all fields of science and engineering.