

INNOMOTICS

Press release

Innomotics and the University of Pittsburgh award prestigious engineering scholarship

- Todd Marzec, a University of Pittsburgh PhD graduate student, has been selected for the 6th annual Innomotics Peter Hammond Scholarship.
- Announcement of the scholarship comes during the 30th anniversary of the Perfect Harmony drive, Innomotics' market-leading medium voltage drive.
- Innomotics, an essential employer in New Kensington, PA, continues to work closely with the local community and institutions to bolster the growth and advancement of future engineers.

Pittsburgh, PA, April 7, 2025 - **Innomotics**, a globally leading provider of electric motors and large drives systems, and the **University of Pittsburgh's Swanson School of Engineering**, a university innovating processes and designs shaping the world, have awarded this year's \$10,000 **Innomotics Peter Hammond Scholarship** to Todd Marzec, a graduate student in the Swanson School's Department of Electrical and Computer Engineering.

Announcement of the sixth annual scholarship comes during the 30th anniversary of the Perfect Harmony drive, Innomotics' market-leading medium voltage drive – a high-power machine that controls the speed of large motors – invented by the award's namesake and still built in New Kensington, Pennsylvania today. For the past 30 years, the [Innomotics Perfect Harmony GH180](#) has stood strong as a leader in the medium voltage drive sector with over 25,000 units installed globally in the world's most critical applications.

The scholarship is presented annually to outstanding graduate students pursuing studies in electric power engineering who exemplify academic excellence, innovative research, and characteristics seen within Hammond while practicing.

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Todd Marzec, recipient of the 6th annual Innomotics Pete Hammond Scholarship, is pictured fourth from the right during the acceptance ceremony with representatives from the University of Pittsburgh and Innomotics.

“I am incredibly honored to receive the Innomotics Peter Hammond Scholarship. This recognition not only validates my research efforts in power electronics and magnetics design but also highlights the importance of industry collaboration in advancing technology. The opportunity to engage with leading manufacturers like Innomotics provides insight into real-world applications of our research, helping to bridge the gap between academia and industry. Peter Hammond’s contributions to power engineering have had a lasting impact on the industry, and to be recognized in connection with his legacy is truly meaningful,” Todd Marzec. [Marzec](#) holds bachelor’s and master’s [degrees](#) in electrical and computer engineering from Pitt and is pursuing a doctorate in the field. Marzec’s research interests include the design and optimization of magnetic components for power-dense electronic circuits, low- and medium-voltage power conversion equipment, power electronics for harsh environments and microgrid applications, and grid integration of renewable energy.

Annually, Marzec presents efforts to the [Advanced Magnetics for Power and Energy Development \(AMPED\)](#) Consortium to drive miniaturization of high-power magnetics through advanced modeling and multi-objective optimization techniques. Such efforts are helping organizations to drive towards high power and high switching frequency (> 1 MHz) designs that may one day be translated into practice.

“Training the next generation of advanced electrical engineering talent takes resources beyond just the advisors within the school of engineering to balance the students for practice,” said Brandon Grainger, Director of the Electric Power Technologies Lab at Pitt. “We are always grateful for the support of regional manufacturers like Innomotics who financially support the local talent and value the engagement through technical interactions. This always inspires and motivates the graduate students with their higher education pursuits.”

“It’s especially gratifying to award the Peter Hammond Scholarship during the 30th anniversary of the Perfect Harmony drive which revolutionized power conversion,” said Kevin Wissner, Innomotics Director of Research & Development. “This scholarship marks our dedication to nurturing future engineering students and encouraging them to pursue bold ideas that could change the way we live and work tomorrow.”

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Innomotics Perfect Harmony drive, comprising a series of interconnected cells to generate medium voltage power, has been renowned [for three decades](#) as the most trusted drive worldwide for its reliability, efficiency and ease of use. This global-leading product is innovated, engineered and manufactured at Innomotics' New Kensington, Pennsylvania, plant, home to 400 employees.

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Innomotics GmbH

Redefining reliable motion for a better tomorrow.

Innomotics GmbH is a globally leading provider of electric motors and large drive systems that combines deep technical expertise and leading innovation in electrical solutions across industries and regions. With more than 150 years of experience in developing electric motors, the company is the backbone for reliable drive technology in industry and infrastructure worldwide. Innomotics is a thought leader in the areas of industrial efficiency, electrification, sustainability, and digitalization. The company is headquartered in Nuremberg (Germany) and employs around 15,000 people worldwide. Annual revenue exceeds 3 billion euros. With 17 production sites and a comprehensive sales and service network in 49 countries, Innomotics has a well-balanced global presence in a growing market.

For more information, visit www.innomotics.com.

University of Pittsburgh's Swanson School of Engineering

Since 1846, the University of Pittsburgh's Swanson School of Engineering has developed innovative processes and designs that have shaped our region, our country, and our world. Faculty and students are at the forefront of developing solutions to create a better future and continue the School's founding commitment to engineering excellence. The Swanson School excels in basic and applied research with emphasis in sustainability, energy systems, advanced manufacturing, bioengineering, micro- and nanosystems, computational modeling and advanced materials development. More than 225 faculty members serve 3,400 undergraduate, graduate and PhD students across six departments: bioengineering, chemical and petroleum engineering, civil and environmental engineering, electrical and computer engineering, industrial engineering, and mechanical engineering and materials science.