



## **National Graphene Association Announces That Nova Graphene Was Awarded A Defense Contract**

*March 20, 2019*

March 20, 2019 - PRESSADVANTAGE -

The National Graphene Association has announced that Nova Graphene, which is based in Halifax, Canada, has been awarded a contract by the Canadian Department of National Defence's Innovation for Defence Excellence and Security (IDEaS) program for the development of lightweight ballistic plating to be used for personal protection. Through the IDEaS program, Nova Graphene will be using its proprietary graphene-enhanced technology to develop an improved ballistic plating that enhances personnel performance, survivability, and unit effectiveness. More information about this can be gleaned at <https://www.nationalgrapheneassociation.com/news/nova-graphene-awarded-defense-contract-to-develop-lightweight-ballistic-plating/>.

The current state of ballistic protection systems or "bullet-proof armor", is such that they are often bulky, heavy and limit mobility. They often cause overheating and discomfort and modify natural movement biomechanics such that there is a higher risk of injury. Also, current ballistic systems don't have scalability and modularity that will allow for the development of less burdensome versions and boost integrated survivability.

Paul Beasant, CEO of Nova Graphene, says, "We are honored to be working to provide improved ballistic & blast protection for the members of our military. As our production capability continues to expand, we also look forward to making our products available to our allies, as well as to members of law enforcement."

Meanwhile, Dr. Alison Mark who serves as project lead for Nova Graphene, says, "We are confident that we will achieve a minimum Level III rating, as per National Institute of Justice standards. Our goal is to provide plates that will comfortably stop multiple rounds, at a fraction of the weight of current offerings."

The National Graphene Association is the primary organization in the US that is advocating and promoting the commercial use of graphene. They are focused on creating solutions for critical issues such as the development of policies and standards that will ultimately lead to the effective integration of graphene and graphene-based materials all over the world. It is this organization that encourages various stakeholders in graphene to unite and work together towards the goal of stimulating innovation in the use of graphene and the commercialization of graphene technologies and products. Paul Beasant is a member of the advisory board of the National Graphene Association.

Nova Graphene produces 7.5 tons of single layer and multi-layer graphene each day and plans to increase that to 25 tons per day within two years. Their products have the proprietary brand name of CarbonEra. Their studies have shown that CarbonEra materials have these benefits: reduction product costs across the board; decrease in environmental impact; and increased customer satisfaction.

For instance, they have introduced improvements in resins and in concrete and asphalt. For polyester, there is a 100 percent increase in strength modulus. For vinyl ester, there is also a 100 percent increase. For epoxy, there is a 200 to 800 percent increase, depending on the base formulation. For concrete and asphalt, there is a 30 percent increase in compression strength, and a 90 percent reduction in water leeching with the use of single layer and multi-layer graphene.

Nova Graphene is helping various industries, including the concrete and asphalt industry, the resins industry, the plastics and polymers industry, the lubricants industry, the 3D printing industry, the foams industry, and the coatings industry. The company assists these industries in enhancing their product strategies and help them in developing solutions for competition issues through futuristic innovations. They provide assistance in the development of novel formulations so as to speed up business development, and they also invest in research for the development of new materials.

Paul Beasant has worked in the renewable energy industry for the past six years and is a director the i-Valley Intelligent Community Association out of Arcadia University. He also served as a board member of the Atlantic Chamber of Commerce for four years. He has a wide range of international experience, working as a consultant and business development executive for a number of years.

Those who need more information regarding graphene or Nova Graphene can visit their website at [www.novagraphene.com](http://www.novagraphene.com) or contact them by phone or by email.

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## **Nova Graphene**

*Nova Graphene is a Dartmouth Nova Scotia , Canada Corporation focused on the delivery of innovative industry solutions enhanced by the use of high quality single and multi layer graphene*

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