



FGR to Supply Graphene Materials to The University of Manchester.

Highlights

- FGR and The University of Manchester, acting through Graphene@Manchester have executed a Memorandum of Understanding.
- Under the Memorandum of Understanding FGR will supply graphene materials to researchers at The University of Manchester on favourable terms.
- Both parties acknowledge the importance of a reliable supply of high-quality graphene raw materials to enable the development of downstream applications.

Advanced materials company, First Graphene Limited ("**FGR**" or "**the Company**") (ASX: FGR) is pleased to advise it has executed a Memorandum of Understanding with The University of Manchester under which FGR will provide graphene products for research to be undertaken by researchers at the GEIC (Graphene Engineering Innovation Centre). The MoU will be in effect for three years.

Previously, the Parties had signed a Tier 1 GEIC Membership Agreement dated 21 June 2018, to formalise the partnership. The Parties have now further agreed to collaborate and explore opportunities in the area of development and commercialisation of 2D materials, to accelerate the adoption of these materials into commercially viable markets.

The Parties agree that a strongly focused end-user perspective is required. They will look to consistently communicate, co-operate and where available direct their resources with the intent of promoting the growth of the overall graphene and 2D materials market.

FGR will be providing its PureGRAPH™5, 10 and 20 products initially and will make other 2D materials available as they are developed.

Managing Director, Craig McGuckin stated: *"We are very keen to facilitate successful research programmes within the GEIC and across the University. Providing our PureGRAPH™ products is a great starting point for collaboration, also offering third party confirmation of the high quality of our graphene product range."*

James Baker, CEO Graphene@Manchester said: *"To explore and fully exploit the benefits of graphene, commercial partnerships are vital, as is the access to quality materials. Our collaboration with First Graphene, one of the GEIC's tier one partners, will ensure materials will be available to support wide-ranging ongoing commercial activity. The GEIC will fill a critical gap in the advanced materials ecosystem and accelerate the development of graphene applications coming to market."*

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About Graphene@Manchester

Graphene@Manchester is an ongoing programme of activity to ensure that Manchester and the UK play a leading international role in developing the potential of graphene and 2D materials. Graphene@Manchester operates across the whole of The University of Manchester with the National Graphene Institute and Graphene Engineering Innovation Centre at its heart. Key to the vision of creating a Graphene City in Manchester is creating a thriving knowledge-based economy supported by an ecosystem of scientists, manufacturers, engineers, innovators, investors and industrialists.

About First Graphene Ltd (ASX: FGR)

First Graphene has established a commercial graphene production facility for the bulk scale manufacture of graphene at competitive prices. The Company continues to develop graphene related intellectual property from which it intends to generate licence and royalty payments.

The Company has collaboration arrangements with four universities and is at the cutting edge of graphene and 2D related material developments. Most recently First Graphene has become a Tier 1 participant in the Graphene Engineering and Innovation Centre (GEIC) of the University of Manchester. First Graphene is working with numerous industry partners for the commercialisation of graphene and is building a sales book with these industry partners.

PureGRAPH™ Range of Products

The PureGRAPH™ range of products were released by FGR in September 2018, in conjunction with a detailed Product Information Sheet.

PureGRAPH™ graphene powders are available with lateral platelet sizes of 20µm, 10µm and 5µm. The products are characterised by their low defect level and high aspect ratio.

About Graphene

Graphene, the well-publicised and now famous two-dimensional carbon allotrope, is as versatile a material as any discovered on Earth. Its amazing properties as the lightest and strongest material, compared with its ability to conduct heat and electricity better than anything else, means it can be integrated into a huge number of applications. Initially this will mean graphene is used to help improve the performance and efficiency of current materials and substances, but in the future, it will also be developed in conjunction with other two-dimensional (2D) crystals to create some even more amazing compounds to suit an even wider range of applications.

One area of research which is being very highly studied is energy storage. Currently, scientists are working on enhancing the capabilities of lithium ion batteries (by incorporating graphene as an anode) to offer much higher storage capacities with much better longevity and charge rate. Also, graphene is being studied and developed to be used in the manufacture of supercapacitors which can be charged very quickly, yet also be able to store a large amount of electricity.

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