

The logo graphic for GEMaC features a series of thin, grey, curved lines that sweep upwards from the left and downwards from the right, framing the text. The lines are more densely packed on the right side, creating a sense of motion or a stylized 'C' shape.

GEMaC

**Groupe d'Étude
de la Matière Condensée**

GEMAC EMBARKS WITH FLAGSHIP GRAPHENE TO CORE 3

Flagship Graphene announced a transition to Core 3, the fourth funding round of the €1 billion research initiative funded by the European Commission.

This new three-year phase will combine fundamental research, in which GEMaC is once again involved, with innovative industrial research aimed at bringing graphene-based technologies to higher levels of technological maturity.

Highly sensitive to their environment, graphene layers achieve their best electrical conductivity when sandwiched in hexagonal boron nitride (hBN) crystals. Following its pioneering work on the optical properties of hBN, the DIAM team of GEMaC helps to evaluate the quality of the various hBN materials manufactured worldwide for integration into electronic components (WorkPackage3 "Enabling Materials").

Read more :

[Core3 sur le site du Flagship Graphene](#)

Related publications :

C. Backes et al., "Production and processing of graphene and related materials", 2D Materials **7**, 022001 (2020)

J. Sonntag et al., "Excellent electronic transport in heterostructures of graphene and monoisotopic boron-nitride grown at atmospheric pressure", IOPScience (2020)