

## Development of Functional Conducting Additive Using Innovative Carbon Material GMS（3DC Inc.）



City	Year of Establishment	Founder
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Partner VC	Latest round of Fundraising	Valuation
ANRI Inc.	Pre Series A	Non-Disclosure

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○ Business Plan

This project focuses on researching and developing the application of GMS (Graphene MesoSponge), an innovative carbon material invented at Tohoku University, as a conductive additive for lithium-ion batteries (LIB). We aim to address the critical design challenges of lithium-ion batteries that are difficult to solve with conventional carbon materials lacking structural controllability. By utilizing GMS, which enables precise structural control, we will develop it into a functional conductive additive.

○ Research Outline

The functional conductive additive GMS to be developed in this project is a material that combines high voltage resistance, electrolyte transportability, and flexibility against compression, which are difficult to achieve with conventional CBs and CNTs.

This project includes the following research and development objectives.

- (1) Development of products with higher cost competitiveness and performance.
- (2) Development of dispersion products.
- (3) Design for mass production.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Materials	STS 2024～2026FY	JPY 499 million	—