

## **AirMembrane Secures New Funding from Two VC Firms to Accelerate Mass Production of High-Quality Graphene Sheets**

*June 13, 2025*



AirMembrane Co., Ltd. (Headquarters: Tsukuba City, Ibaraki Prefecture, Japan; hereinafter "AirMembrane") has completed seed funding rounds in January and May 2025, securing investments from two venture capital funds: Tsukuba Exceed Fund No. 2 (Head Office: Mito City, Ibaraki Prefecture; Representative Director: Shigeto Ikeda) and Mitsubishi UFJ Capital Fund No. 9 (Head Office: Chuo-ku, Tokyo; President: Takuro Kojima). With this new funding, AirMembrane will further strengthen its development and manufacturing systems for high-quality graphene products, including graphene sheets, and accelerate its expansion into both domestic and international markets.

### **About AirMembrane Co., Ltd.**

Founded in 2017, AirMembrane originated from graphene research conducted at the National Institute of Advanced Industrial Science and Technology (AIST). Graphene—a single-atom-thick layer of carbon atoms arranged in a hexagonal lattice—is expected to revolutionize next-generation devices due to its exceptional conductivity and responsiveness. However, despite its potential, industrial applications of high-quality single-layer graphene remain limited due to production challenges.

AirMembrane is tackling this issue head-on by developing scalable technologies that dramatically improve the quality and production efficiency of graphene. The company's graphene membranes can be transferred to a wide range of substrates, including those that are typically difficult to process, enabling applications in advanced fields such as transparent conductive films and ultra-sensitive sensors.

### **Future Outlook**

Following the investment received in July 2024 from Shinhan-GB Future Flow Fund and Central Japan Seed Fund, this latest funding will support AirMembrane in further enhancing its mass production technology for high-quality single-layer graphene and expanding its team.

The company will continue to focus on solving two fundamental challenges in industrializing graphene: continuous synthesis and atomic-level handling. By advancing these technologies, AirMembrane aims to move into the product implementation stage and drive commercialization. In

doing so, the company will not only strengthen its presence in the Japanese market but also accelerate global expansion—particularly into the U.S.—with the goal of becoming a leading player in the international graphene industry.

### **Investor Comments**

#### **Shigeto Ikeda, Representative Director, Joyo Capital Partners, Inc.**

“We strongly support AirMembrane’s initiative to industrialize graphene—a material with exceptional conductivity and responsiveness poised to transform next-generation devices. We expect that this new funding will accelerate the development of scalable graphene production technologies and lead to practical applications in electronics and other fields.”

#### **Koichi Hatano, Director, Investment Division III, Mitsubishi UFJ Capital Co., Ltd.**

“High-quality single-layer graphene is considered a revolutionary material that surpasses the limits of conventional materials, yet its mass production remains a bottleneck. AirMembrane has leveraged years of research at AIST to develop production technologies and is poised to break through in the graphene market. We are excited to support their growth and will leverage MUFG’s strengths to contribute to their success.”

#### **Comment from Masataka Hasegawa, CEO of AirMembrane Co., Ltd.**

“We are honored to have completed this funding round. With this capital, we will work tirelessly to unlock the full potential of graphene as an industrial material and accelerate its commercialization. Continuous synthesis and atomic-scale handling technologies are key to industrializing graphene, and we will focus on solving these essential challenges to move into the implementation phase. We are also looking for collaborators who share our mission—‘Making the dream of graphene come true’—and welcome inquiries from those interested in joining us to advance this transformative field together.”

### **Company Profile**

Company Name: AirMembrane Co., Ltd.

Representative: Masataka Hasegawa, President & CEO

Headquarters: Tsukuba Research Support Center, 2-1-6 Sengen, Tsukuba City, Ibaraki Prefecture, Japan

Founded: July 2017

Business Activities: Synthesis, R&D, commercialization, and sales of graphene and other 2D materials; technical consulting on applications and development

Website: <https://www.airmembrane.co.jp>