

November 20, 2024

JX Advanced Metals Corporation

Additional Investment in Alloyed Ltd.

—Promoting collaboration with Oxford University startups in the advanced materials field—

JX Advanced Metals Corporation (President: Hayashi Yoichi, “the Company”) is taking a portion of the new third-party allocation of shares by Alloyed Ltd. (CEO: Michael Holmes, “Alloyed”), thereby increasing its capital stake in Alloyed.

Alloyed is a startup from the University of Oxford, UK, that uses its proprietary Alloys-by-Design® (ABD®) platform to develop its business in alloy design and modeling design for metal additive manufacturing. Alloyed's advanced alloy design and additive manufacturing technologies have attracted the attention of government-related financial institutions in Japan because of their potential to lead to technological innovations in the advanced materials field. Since acquiring the shares together with Japan Bank for International Cooperation, Inc. in 2019, we have been working on various initiatives. These include combining our long-cultivated powder control and alloy manufacturing technologies with Alloyed's simulation technology to develop copper powder with proprietary surface treatment for use in 3D printers for laser powder bed fusion (L-PBF) applications, and leveraging synergy with our Group company TANIJOBIS, Inc. to jointly develop AMtrinsic®, a heat-resistant alloy.

Under these circumstances, Alloyed has decided to raise funds through a third-party allotment of new shares in order to invest in various projects, especially in the aerospace and defense industry, where further growth is expected, and in software development. Development Bank of Japan Inc. and Mirai Creation Fund III (SPARX Asset Management Co., Ltd.) have newly invested in Alloyed, and we have also acquired additional shares.

Through additional investment and collaboration with Alloyed, we will promote the development of advanced materials for the data center, aerospace and defense, and semiconductor manufacturing equipment markets, with the aim of expanding business in these promising markets. We will advance a wide range of activities from material development to component manufacturing and marketing, including components used in extreme environments such as outer space and ultra-high temperature environments, cooling components for AI data centers, and heat-resistant and corrosion-resistant materials for semiconductor equipment.

We will continue to actively promote open innovation, including the use of startups and industry-academia collaboration, to create new businesses in the domains defined as “Focus Businesses” in the JX Advanced Metals Group Long-Term Vision for 2040.

Reference

Alloyed Overview (as of Nov. 20, 2024)

Company name	Alloyed Ltd.
Location	Unit 15 Oxford Industrial Park, Mead Road, Yarnton, Oxfordshire, England, OX5 1QU
Representative	CEO Michael Holmes
Business activities	<ul style="list-style-type: none">• Design and development of new alloys by machine learning and computational science• Development and sales of metal additive manufacturing products
Establishment	2017
Major Investors	<ul style="list-style-type: none">• Oxford Science Innovation• Anglo American• Development Bank of Japan Inc.• Japan Bank for International Cooperation• Mirai Creation Fund III (SPARX Asset Management Co., Ltd.)