

March 25, 2020  
Hitachi Metals, Ltd.

## University of Oxford (UK) and Hitachi Metals Establish Hitachi Metals-Oxford UTC of Metallurgy

We are pleased to announce that the University of Oxford in the United Kingdom and Hitachi Metals, Ltd. ("Hitachi Metals") opened the "Hitachi Metals-Oxford UTC\* of Metallurgy" on January 1, 2020, following the conclusion of an agreement regarding the establishment of a joint research organization on amorphous ribbon and superalloys.



Signing ceremony on January 20

(Left: Executive Officer Hasegawa from Hitachi Metals; Right: Professor Roger Reed from the University of Oxford)

Hitachi Metals established the new corporate research lab, "Global Research & Innovative Technology Center (GRIT)," in April 2017, and promotes the creation of new businesses that will take the company into the next generation, aiming to promote medium- to long-term R&D on advanced materials that contributes to sustainable growth and society.

The company also takes part in an industry-government-academia collaboration project, "Creation of global advanced metallic material base – Next Generation TATARA Project," which was selected by the Cabinet Office as a recipient under its "Regional University and Local Industry Revitalization Grant Program" in November 2018. In this project, the company works with Shimane Prefecture, Shimane University and local businesses in R&D on materials for aircraft engines and energy-efficient motors.

In this context, Hitachi Metals signed an agreement with the University of Oxford regarding the establishment of a joint research organization on amorphous ribbon and Ni-based superalloys, and opened "Hitachi Metals-Oxford UTC of Metallurgy."

By integrating the metallurgical technologies held by University of Oxford, a world leader in this research area, and the material development technologies of Hitachi Metals, a manufacturer of high-performance materials, this joint research organization will promote efforts to build a process model of Fe-based amorphous ribbon and to identify dominant structural factors affecting mechanical properties of Ni-based superalloys, with the aim of establishing processing and material technologies that will contribute to the advancement of next-generation energy-efficient motors and aircraft engines.

Through this joint research organization, we will further strengthen open innovation and create products and solutions that anticipate market change.

\*UTC: University Technology Centre