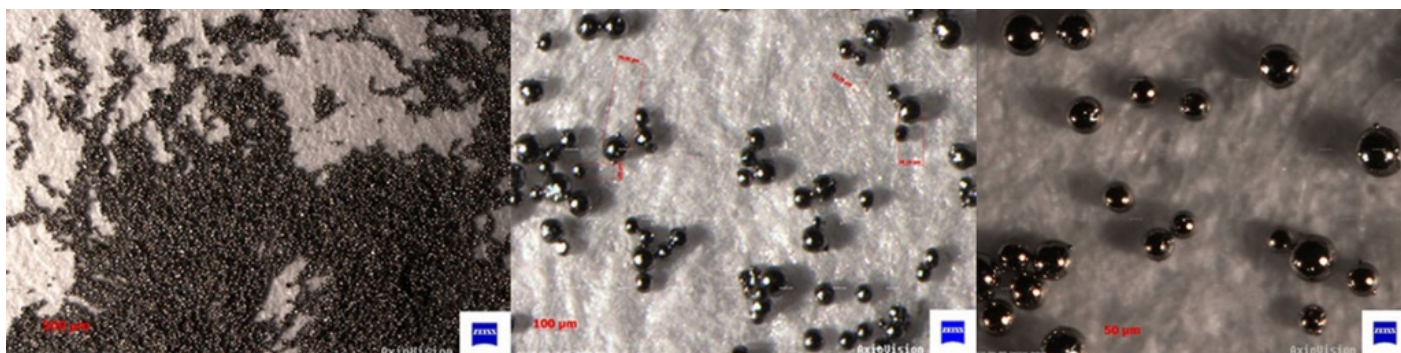


New Alloys and Powders for Additive Manufacturing are being Developed in SPbPU



Special attention has been paid to the development of additive technologies lately, as they play a key role in the improvement of the technological process for manufacturing the components for sophisticated technical systems. Within the framework of the import substitution project, scientific centers, research institutes as well as the industrial groups improve additive materials, technologies, constructions - the main components, on which the effectiveness of national additive manufacturing relies. The scientists of the Joint Institute of Science and Technology of Peter the Great St. Petersburg Polytechnic University are also working hard on creating powders and alloys for 3D printers.



The JIST produces aluminum, copper, titanium-based powders, heatproof and tool materials,

different types of steel - 5-10 compositions for each type of metal.

The first experiments were conducted on a low-power model unit, which was capable of simultaneously producing the minimal amounts of powder required for scientific experiments. The assembly of a semi-industrial experimental unit, which will be used by the personnel to implement main technical solutions, is currently in progress.