# NIINO LAB.

## [Functional Geometry Materialization]

#### Dept. of Mechanical and Biofunctional Systems

http://niinolab..iis.u-tokyo.ac.jp

#### **Applied Electromechahical System Engineering**

#### **Department of Precision Engineering**

### **Creation and Materialization of Highly Functional Geometry**

We are carrying out research activities on new fabrication technologies such as additive manufacturing (which is formerly known as rapid prototyping) and MID (Molded Interconnect Devices) and their applications. We are aiming at manufacturing of new functional parts and mechatronic devices/systems by multifunctional free-form fabrication technologies. We are also developing new mechatronic devices which is fully compatible to extreme conditions such as ultrahigh vacuum.

## **Research Subjects**

Accuracy and Fineness Improvement of Sintering Fabrication

Laser Sintering Fabrication with Filler

Research on Powder Compaction in Laser Sintering Fabrication Laser Sintering Fabrication of Tissue Engineering Scafforlds

**MID Application on Mechatronic Devices** 

**MID Fabrication Process Using Sacrificial Material** 

Transparentization of laser sintered parts

