

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 GRANT LASTING 12 MONTHS FOR CONDUCTING RESEARCH IN ACCORDANCE WITH ART. 22 OF LAW OF 30.12.2010 NO. 240 AT THE DEPARTMENT MANAGEMENT, INFORMATION AND PRODUCTION ENGINEERING OF THE UNIVERSITY OF BERGAMO (ACADEMIC RECRUITMENT FIELD 09/A3 – INDUSTRIAL DESIGN, MACHINE CONSTRUCTION AND METALLURGY) ACADEMIC DISCIPLINE ING-IND/14 – MECHANICAL DESIGN AND MACHINE CONSTRUCTION (FUND: DIGIPFUTURMAN)

announced with decree of the Rector Rep. no. 107/2018 of 08.02.2018 and posted on the official registry of the University on 08.02.2018

RESEARCH PROJECT

The candidate will be involved in the research group of the University of Bergamo, coordinated by prof. Sergio Baragetti, relatively to the realization of mechanical systems of high strength and low weight. In the development of this research project it is expected to develop the study of components manufactured with high mass-resistance ratio materials, such as titanium and aluminum alloys, as well as the structural optimization of mechanical components and structural elements of machines. Considering the optimization of the materials to be used in the design of mechanical components, it is expected to investigate the effects of machining processes and to improve the behavior of the same, and to investigate the corrosion phenomena in static and fatigue field, as well as on the mechanical propagation of defects in the material also numerically.