

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 GRANT LASTING MONTHS FOR CONDUCTING RESEARCH IN ACCORDANCE WITH ART. 22 OF LAW OF 30.12.2010 NO. 240 AT THE DEPARTMENT OF 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/15 – DESIGN METHODS FOR INDUSTRIAL ENGINEERING)

announced with decree of the Rector Rep. no. 163/2018 of 27.02.2018 and posted on the official registry of the University on 28.02.2018

RESEARCH PROJECT

TITOLO: " *Development of a procedure to assess rehabilitation processes* "

The research project has the main objective of developing procedures for the medical evaluation of rehabilitation processes through the aid of low cost technology for tracking and recognition of human body movements. In particular, the project concerns the use of optical Marker-less motion capture systems (MOCAP) and uses the acquired data to generate useful information during the rehabilitation process and to create a knowledge base. In the first phase, the project aims at defining procedures and protocols for the correct use of MOCAP systems according to the type of patient and rehabilitation process taking into account the operating spaces, the acquisition times and the accuracy of the acquired data.

In the second phase, a software application will be developed for the graphic visualization of the acquired data and for an easy reading and interpretation by the medical staff.