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 OF MANAGEMENT, INFORMATION AND PRODUCTION ENGINEERING THE UNIVERSITY OF BERGAMO (ACADEMIC RECRUITMENT FIELD 09/B2 – INDUSTRIAL MECHANICAL SYSTEMS ENGINEERING - ACADEMIC DISCIPLINE ING-IND/17 – INDUSTRIAL MECHANICAL SYSTEMS ENGINEERING (FUND "PROMETEO" FINANCED BY REGIONE LOMBARDIA FOR PROJECT "LINEA R&S PER AGGREGAZIONI" CO-FINANCED BY POR FESR 2014-2020, FUND PROMETEOCAVAS17 – CUP: E47H16001570009)

announced with decree of the Rector Rep. no. 630/2017 of 08.11.2017 and posted on the official registry of the University on 08.11.2017

RESEARCH PROJECT

"Methods and techniques to support maintenance and service assessment for industrial equipment"

The research project has the main aim of devising and implementing business process assessment methods and techniques to enhance maintenance and service processes for industrial equipment. In particular, data analytics and machine learning techniques will be investigated to support the identification of possible improvement actions to increase the machine availability and decrease process inefficiencies.

By working closely with the project's partners, the researcher will analyze the test machine and elaborate the data coming from the service BU with the aim to identify the main criticalities and re-engineering actions.

These actions will be defined thanks to the adoption of assessment techniques (e.g. simulation models) to evaluate the benefits in terms of machine and process efficiency and effectiveness.

The candidate will evaluate how to re-engineer the machine data acquisition process, today managed with an in-filed data collection, to a process supporting the real-time remote data collection. Moreover, the candidate will identify how real-time data collected will be used inside the service process.