

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 GRANTS 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 OF THE UNIVERSITY OF BERGAMO (ACADEMIC RECRUITMENT FIELD 09/B2 – INDUSTRIAL MECHANICAL SYSTEMS ENGINEERING – ACADEMIC DISCIPLINE ING-IND/17 – INDUSTRIAL MECHANICAL SYSTEMS ENGINEERING)

announced with decree of the Rector Rep. no. 661/2016 of 20.12.2016 and posted on the official registry of the University on 20.12.2016

### **RESEARCH PROJECT**

***“Standardisation, implementation and management of maintenance activities for water captation and distribution using CMMS (Computerized Maintenance Management System)”***

#### **Project description**

So far, the activities developed by the CELS research group aimed at engineering the maintenance processes and at managing the different typologies of equipment composing the Integrated Water System, according to standard maintenance procedures. The main goal of this research project is to develop a maintenance information system that can help in keeping (or maintaining) the best level of service and the required quality standards as well as minimizing operating costs.

Given the positive outcomes resulting from previous research collaboration with UNIACQUE SPA, the research activity will focus on the engineering of maintenance activities pertaining to the phases of the integrated cycle of water captation and distribution. the activity will provide with the standardisation of maintenance activities, scheduled and connected to the plants all over Bergamo province.

once the first phase is complete, the above-mentioned maintenance activities will be implemented using the ERP according to the agreed criteria and modes in order to reach the service level described in the “Carta dei servizi”, while ensuring the qualitative standards of the relevant authorities. the third and last phase entangles the design of a KPI dashboard accessible to both operative staff and maintenance accountable - structured with different information according to the user needs.

In short, the expected objectives of the research program are:

1. standardisation of maintenance activities pertaining to water captation and distribution plants;
2. implementation of maintenance activities using CMMS;
3. design of a KPI dashboard for operative staff and maintenance accountable.