

A fresh impetus to future digital industry professionals

- IK4-IDEKO and the University of the Basque Country UPV/EHU have taken part in a grinding WORKSHOP with a follow-up of the end of degree projects of the students from the university.
- During the meeting, which took place within the collaboration framework between the technology centre, the Basque University and the DANOBAT manufacturer, the progress made in the research was analysed.
- The supervised projects seek to give a response to the problems arising in the field of industrial manufacture and are developed in the Digital Grinding Innovation Hub.

(Elgoibar, 23 May 2019).- With the aim of reinforcing the links between the university community and industry, the technology centre [IK4-IDEKO](#) and the University of the Basque Country UPV/EHU met to carry out a follow-up the end of degree projects carried out by students at the Bilbao Engineering School of the UPV/EHU. The meeting formed part of the collaboration established between the Basque University, the research entity and the machine tool manufacturer [DANOBAT](#) to promote the training of the digital industry professionals of the future.

The projects within this initiative seek to give a response to the problems arising in the field of industrial manufacture and are developed in the Digital Grinding Innovation Hub (DGIH). This space opened in 2018 with the aim of constructing a collaborative environment focused on experimentation, demonstration and validation of research projects aimed at industrial digitalisation and grinding technology.

The day, which took place two weeks ago at the Engineering School of Bilbao, was used to find out about the progress recorded by the five projects, which are focused on subjects such as the development of a test methodology for the characterisation of new materials and grinding wheels, the analysis of the behaviour and dimensioning of part feed points and the characterisation of the wear behaviour of dressing discs.

Furthermore, the studies also cover aspects such as the analysis of the behaviour of ultrasonic vibration assisted dressers and the development of tools for the monitoring of temperatures and minimisation of thermal damage during grinding processes.

"The development of these projects has aroused great interest in light of the degree of progress, there is no doubt they will fulfil the needs proposed by the those involved in this initiative", said Jorge Álvarez, manufacturing processes researcher at IDEKO.

Some of the projects will be completed this year, while others, with greater scope, will continue over the coming years, and always linked to the DGIH. One of the main objectives of this space is to promote training and education of new professional profiles aimed at the digital industry.

"The high degree of training and specialisation of the students in the grinding field and the realisation of R&D projects relating to industry, will allow them to make the jump to the company once their training is completed", added Professor Iñigo Pombo, the person responsible at the UPV/EHU for the Digital Grinding Innovation Hub. "Furthermore, it encourages the students to go on to the high-level training in our postgraduate courses, with a view to carrying out an Industrial Doctoral Theses with IDEKO".

