

**PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 EARLY STAGE GRANT LASTING 12 MONTHS FOR CONDUCTING RESEARCH PURSUANT TO ART. 22 OF LAW NO. 240/2010 AT THE DEPARTMENT OF MANAGEMENT, INFORMATION AND PRODUCTION ENGINEERING THE UNIVERSITY OF BERGAMO (A.R.F. 09/B2 – INDUSTRIAL MECHANICAL SYSTEMS ENGINEERING – A.D. ING-IND/17 – INDUSTRIAL MECHANICAL SYSTEMS ENGINEERING (CUP: E18B17000100009) - TYPE B**

announced with decree of the Rector Rep. no 285/2018 of 20.04.2018 and posted on the official registry of the University on 20.04.2018.

**RESEARCH PROJECT**

**“Study and research of fiber-reinforced composite materials for static consolidation operations ”**

**Research structure:** Department of Management, information and production engineering

**Duration of the grant:** 12 months

**Scientific Area:** 09 - Industrial and information engineering

**Academic recruitment field:** 09/B2 – Industrial mechanical systems engineering

**Academic discipline:** ING-IND/17 – Industrial mechanical systems engineering

**Scientific Director:** Prof. Stefano Dotti

The research project aims to achieve a series of products and process innovations in the field of production and use of carbon fiber fabrics for fiber-reinforced composite materials. The research is aimed at the study and research of the specific investigation and characterization techniques of the functional textile materials that will be developed within the project itself. The aforesaid investigations concern the measurement of the mechanical characteristics of the resistance of the fabric to the stresses, and in particular you will work to: - study the state of the art; - analyze the technical and product characteristics of the fabrics to be taken as a reference for the development of new products; analyze the technical characteristics of weaving machines, to improve the production process by reducing waste and proceeding with the collection and classification of the same for future re-use; carry out qualitative and quantitative checks of the products produced as a result of development and innovation activities, using laboratory instruments to validate the proper functioning of the same in the specific structural applications envisaged.