



ANNEX 1

Tab 1 Department of Engineering

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| Vacancies | N. 1 |
| Project | <i>"Wind energy production with reduced environmental impact 2" – PERIMA2</i> |
| CUP (Consolidated Project Code) | G98118000560007 |
| Category | D3 |
| Duration | 18 months |
| Location of the research activity: | University of Palermo – Department of Engineering |
| Qualifications for access | Master's degree or old degree in Civil, Environmental or Mechanical Engineering |
| Required professional qualification | Experience using Solid Works for mechanical design |
| Technical and administrative support activities on the following work programme | <p>The project's work program includes the executive design of the hydraulic lifting system, on a 1:1 scale, of a telescopic wind tower weighing approximately 15 tons, formed by three concentric rings. The prototype will be lifted for a total length of approximately 30 cm, through a strut of which one end is placed at the base of the smaller ring and another end closes the expansion chamber, consisting of a blind well approximately 45m deep. the procedure will be tested in the laboratory, on a 1:1 scale, limited to lifting an equivalent load for a length of approximately one metre.</p> <p>The candidate will have to, under the guidance and supervision of the teachers, provide the mechanical design of the individual components, participate in the experimental activities in the laboratory and in the working group meetings, collaborate in the organization of 2 conferences/seminars and more generally in the dissemination of the results.</p> <p>The aforementioned activity falls within Phases 2-6 of the project (Industrial Research and Experimental Development)</p> |
| Language skills | English |