

Company Description

University of Deusto Deustotech – Deusto Institute of Technology is the Technological Research Centre of the University of Deusto, located on the Bilbao campus, whose mission is to promote research, training and knowledge transfer at the service of society and industry. DeustoTech offers an exceptional opportunity for Pre Doctoral Researchers interested in the field of energy performance of buildings and built environments. Several topics such as integration of renewable energies, improvement of building envelopes, and building HVAC systems are considered, mainly through a data-driven perspective.

Information

 Deadline: 2024-05-31
 Category: Academia
 Province: Bizkaia

 Country: Basque Country
 City: Bilbao

Company

Universidad de Deusto



Main functions, requisites & benefits

Main functions

General call for Grants allocated to Research Projects or Groups to pursue Doctoral Studies. Position: We are seeking for Research Assistant for the following topics: Energy monitoring activities and impact assessments over several newly constructed positive energy neighborhoods. Social science and citizen engagement activities. Energy modeling activities, focused at the assessment of overheating in buildings. At the urban scale, focusing on potential mitigation activities. The candidate will collaborate in the execution of activities similar to above-mentioned ones, including the consolidation of data from public offices (municipal/regional cadasters, building taxonomies, energy inventories), and energy suppliers (consumption data) into building energy models, and high-level performance indicators, assess the achievement of the expected performance levels, identify underperforming systems and propose improvement measures. The candidate should be able to interact with ICT technicians in Deusto, regarding the extraction and integration of data into data structures. The above mentioned activities are well- aligned and with sufficient scientific aim as to deliver a PhD thesis in the field of Energy in the Built Environment. Consisting on scenario assessment, intervention proposals and impact assessment at urban scale. The candidate will participate also in communication and dissemination of the scientific results in conferences, seminars and workshops, both national and international, as well as publications in scientific journals. PI and/or project manager: Roberto Garay

Requisites

Background: Energy Engineering or equivalent Master Degree. Capacities: Understanding of energy systems in buildings and urban environments. Programming skills. At least basic knowledge of Python and/or R. Fluent in English (requirement) and Spanish (highly valued). Ability to work in a multidisciplinary environment and adapt to different research challenges. Good level of written and spoken English. Valuable Items: Expertise in international context (erasmus) or multi-stakeholder environments (some business experience). Expertise in scientific publication. Understanding of public registers (cadasters, etc). Basic skills in Geographic Information Systems. Good level of written and spoken Spanish.

Benefits

Full-time incorporation in a Doctoral Project of three to four years, starting in autumn 2024. Stimulating research environment with access to cutting-edge resources and technologies. Ongoing supervision and support from leading experts in the field. Competitive economic conditions and opportunities to attend international scientific events. The University of Deusto supports the inclusion of people with disabilities. It therefore encourages this condition to be indicated in applications in the case of having a certificate of disability equal to or greater than 33%.