Job vacancy at the Technological Institute of the Canary Islands

REF: TSLP-09/19		
Job post (number of vacant position/s): Master degree, MSc (1)	Code:	210.3.05.02
Job tasks:	ESR5 -Techno-economic analysis of Grid-Connected Microgrids of PEDs. There are barriers that must be overcome for the widespread deployment of microgrids connected to the distribution grid. The work will focus on identifying the existing technical, economic and social constraints, and on proposing a strategy to overcome the barriers that delay / slow the deployment of these energy solutions. The PhD student will focus his work on the analysis of solutions to overcome existing technical and economic barriers, and definition of effective strategies to accelerate the deployment of microgrids of high penetration of renewable energies. It will generate a methodology to analyse the viability of microgrid projects, justifying incentives and public support schemes. The PhD student will elaborate a methodology to analyse the viability of microgrid projects, justifying incentives and public support schemes.	
Category: A	Contract type: Full time job, 3 years contract attached to Smart-BEEjS project.	
Division: Research, Development and Technological Innovation	Department: Renewable Energies	
Location: Pozo Izquierdo, s/n. 35119 - Santa Lucia. Gran Canaria	Province: Las Palmas	
JOB PROFILE		
1.- Academic qualification required: Engineer, Master's Degree or equivalent		

2.- Experience, knowledge and skills:

This job position is under Marie Skłodowska-Curie Actions, Innovative Training Networks programme rules:

- International mobility: applicants must not have resided or carried out their main activity (e.g. work, studies) in Spain for more than 12 months in the last 3 years.
- Early-stage researchers: at the time of recruitment by the host organisation, applicants must have less than four years (full-time equivalent) of their research careers and not have a doctoral degree.

Requirements:

- Advanced knowledge of:
  - Renewable energy and energy saving and efficiency
  - Electric engineering
  - Experience in the use of statistical tools applied to the evaluation of data on resources and production of renewable energy systems and energy demand
  - Experience in techno-economic feasibility analysis of renewable energy projects
- Experience with mathematical modelling tools applied to renewable energies.

Will be considered an asset:

- Master related with Renewable Energies.

- Advanced knowledge and experience in analysis of renewable energy resources.
- Advanced knowledge and experience in data acquisition systems, communications networks and automation.
- Knowledge in smart grids.
- Experience in Machine Learning algorithms' development for energy applications and deployment in electrical systems.

3.- Languages:

- High level in English is required. The applicants must demonstrate their ability to understand and express themselves in both written and spoken English. The position involves international travelling
- Knowledge in Spanish language will also be valued

4.- Computer skills:

- Advanced knowledge of Microsoft OFFICE (EXCEL: advanced statistical treatment and macro programming) Microsoft Project and statistical software (R-Statistics, SPSS or similar). Knowledge of QGIS, HOMER, ENERGYPLAN will be valued. Knowledge of AUTOCAD, MATLAB, PYTHON will be valued.

5.- Other requirements:

- Ability to work in a team and proactive attitude.
- Availability to travel.
- Autonomous and organized person.
- Communication skills.

SELECTIVE TESTS: Evaluation of *Curriculum Vitae* and research proposal related with the job position (see annex). Personal interview.

Place and deadline for the submission:

The applications will be checked in a weekly basis until the position is covered.

The submission period ends on 15th October 2019, at 15:00 hours (Canary Islands' time).

Send Curriculum Vitae and research proposal, specifying the reference of the position (TSLP-09/19), to the e-mail address rrhh@itccanarias.org or by post:

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