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Area: Electric Engineering
Head of the Area:
Group: Energy Systems Analytics
Head of Group: Cristina Corchero Garcia

JOB DESCRIPTION

Full Stack Developer

Energy Systems Analytics Group announces a position as Full Stack Developer (R1). The candidate will work on technical research projects in the fields of optimal energy management, energy efficiency, smart grids and sustainable vehicles. The tasks to be carried out will be mainly focused on web application development, software development, architecture design, data management and data visualization.

This professional must be highly skilled in software and web development, data management and visualization. Capacity to work in a team, flexible, innovative, with initiative and problem solving skills would be valuable. High level of analytical and synthesis skills would be beneficial.

Qualifications and experience required:

Essential:

- Degree or master in computer science or alternatively in mathematics, electrical engineering or statistics with programming experience.
- Skills are required for the following:
 - o Experience in web development: HTML, PHP, CSS, JavaScript.
 - o Experience in software development: C++.
 - o Knowledge on data base management.
 - o Knowledge on data visualization.
- Other skills required
 - o Self-motivated and open-minded
 - o Good communication skills

Preferred:

- Experience in architecture design and development of software and web applications integrated with external ones like simulation or optimization tools.
- Experience in data science tools: R, Matlab, Python (NumPy, SciPy)
- Experience in data visualization tools: D3.js, QGIS, Grafana, ggplot2, gnuplot,...
- Experience in design and management of SQL and NoSQL database systems.
- Experience in use and management of a revision control system: Git, SVN.
- Knowledge on Statistics and Machine Learning: clustering, multivariate analysis, reporting and interpretation.

- Knowledge on optimization tools: AMPL, CPLEX, GAMS,...

Language required:

- English.

Personal Skills:

- Team Worker.
- Initiative in Research and Innovation.
- Flexibility.
- Results-oriented.
- Analytical and synthesis capabilities.

Proposed Jury:

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| Presidència | Titular | Cristina Corchero |
| Vocal 1 | Titular | F. Javier Heredia |
| Vocal 2 | Titular | José Luís Domínguez |