**System identification and control engineer – HEBES INTELLIGENCE**

**Background**

HEBES INTELLIGENCE is a Greek private company working on the plug-and-play identification of dynamic systems (mainly for PV-coupled batteries, as well as for the thermal behavior of buildings coupled with their HVAC systems), and the automated development of specially tailored controllers that coordinate the operation of these systems according to user-defined goals, such as efficiency, comfort and cost minimization.

**Purpose**

We are looking for a highly motivated and innovation-driven engineer to join the team. The main working tasks include:

1. **Development of building models**

Development of models of buildings – constituted of building envelops, thermal zones, HVAC equipment, energy generation and storage equipment – using EnergyPlus or Modelica and IEA EBC Annex 60 libraries. These models will be used for both internal purposes (testing system identification and control functionality) and as part of an e-learning platform that will support its users in understanding how to use a thermostat and in getting a feedback on the effect of different patterns of usage on their energy consumption.

1. **Development of system identification and control functionality**

Data-driven identification of dynamic systems; development of control laws. See our website (<http://hebes.io/>) for more details.

**Required Qualifications**

* University Degree (AEI) or Technological Educational Institute (TEI) degree in Civil, Mechanical or Electrical Engineering.
* Strong knowledge of the Python programming language.
* Good understanding of building physics principles.
* Excellent use of English language in verbal and written form.
* Ability in writing technical descriptions and reports in English language.

**Additional skills to be considered as plus**:

* Traction with computational graph and machine learning frameworks (such as TensorFlow, MXNet or Theano).
* Knowledge of C++11

**Terms and Conditions**

The contract will be under the Greek Labor Law.

The position will be based in Athens (Greece).

The position is for a full-time job.

**Benefits**

Competitive Remuneration Package

Access to resources for professional and personal development

Opportunities to work in international teams and to attend meetings, conferences and trainings

**Application Process**

All applicants must send a cover letter and an updated CV (no longer than four pages) at [jobs@hebes.io](mailto:jobs@hebes.io). Both must be in English.