



AALBORG UNIVERSITY
DENMARK

PhD Position within Hybrid Modeling and Control for Energy Systems

Within the programme Science without Borders, Aalborg University is offering a PhD position at the Department of Energy Technology, Pontoppidanstræde 101, DK-9220 Aalborg East.

The position is administered and funded by the “Science without Borders” program through the Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES). The theme of focus related to the position is listed as “Engineering and Other Technological Areas” in the program. Acceptance of employment for the position is subject to the approval of grant from CAPES.

Description: Hybrid systems arise wherever continuous and discrete dynamics interact. This is especially profound in many high-tech systems, in which logic-based components, digital networks and embedded controllers are combined with continuous physical processes. As the energy systems are becoming increasingly complex there is a strong need for employing hybrid systems modeling and control methods for such systems. The usage of hybrid modeling and control framework for systems within the field of energy technology is the subject of this PhD project. These methods are generic. However, depending on the candidate’s background the study will be focused on a specific application in the field of energy technology. The results obtained are expected to improve the performance of current energy systems and to benefit the design of future energy systems.

Requirements

Applicants for the PhD position should have a Master in Electrical or Mechanical Engineering. Applicants should preferably have some experience with modeling and control. The language of communication at AAU/ET is English (written and spoken).

Contact: Assistant Professor Hamid Reza Shaker, e-mail: shr@et.aau.dk

To apply please see the link below:

<http://www.en.tek-nat.aau.dk/vacant+positions/Science+without+Borders/>