System Modeling Engineer (00266461)

Information about Honeywell:
Honeywell Technology Solutions (HTS) dynamically expands activities in research and development (R&D) centre in Brno, Czech Republic. Established in 2003, this is the largest R&D centre in Europe for Honeywell. Our engineers and scientists develop products and technologies that are linked to our business units: Aerospace, Automation and Controls Solutions and Transportation Systems.

This position is a part of Automation and Control Solutions (ACS) group, whose products and technologies are utilised in more than 150 million homes and 10 million buildings around the world.

The key responsibilities will include:
As a System Modeling Engineer, you will be responsible for capturing requirements, setting up models/simulations, consulting in test development and execution, and analyzing performance of control algorithms.

- Developing control algorithms that solve the needs of internet connected customers
- Modeling and analyzing control algorithms through simulation
- Interfacing with international engineering resources
- Addressing comfort control field Issues
- Providing expertise and consultation to the development and test teams to ensure high quality algorithm implementation

Requirements:
- At least Bachelor Degree in Electrical, Mechanical, or Controls Engineering Science (Master’s Degree or PhD. Owners are welcome)
- Expertise in control theory
- Experience modeling building envelopes and evaluating variables that affect human comfort
- Knowledge of residential heating/cooling applications
- Fluent in MATLAB/Simulink or similar tools for simulation of dynamic thermal process
- Ability to design experiments to validate a control system’s performance as well as debug the implementation
- Design Closed Loop Simulators for quality assurance
- Ability to plan and execute required design and test tasks on time and within budget
- Ability to synthesize new design options from modeling analysis
- Knowledge/awareness of building science matters relating to energy efficiency, building performance, and human comfort
- Experience with measurement, control, and simulation of factors impacting indoor air quality

We offer:
- Permanent full-time employment with opportunity to be a part of one of the most interesting Honeywell teams
- Friendly work environment
- Extensive training program
- Motivating salary
- Wide range of company benefits (5 weeks holiday, semi-flexible working hours,…)

Honeywell information:
- Enterprise: http://honeywell.com/Pages/Home.aspx
- Culture Video: http://www.youtube.com/watch?v=CcMf_TFS0kA
- Career Site: www.careersathoneywell.com

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