Control Algorithms Engineer (00266459)

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 Control and Applications Engineer you will be responsible for applying technology and the principles of control theory, thermodynamics and heat transfer to develop feedback control algorithms, control sequences and system solutions for home automation with an emphasis on energy efficiency and home comfort.

- Developing comfort control algorithms to meet the needs of internet connected customers
- Master of interdependencies between remote and local user interaction, scheduled events, and system response time to provide maximum home comfort
- Balance very complex and often conflicting control sequence expectations of end users with actual capabilities of physical systems
- Modelizing and analyzing control algorithms through simulation
- Interfacing with and direct the activities of global engineering software developers
- Rapidly diagnose comfort control field Issues and develop solid solutions with a sense of urgency
- Providing expertise and consultation to the test team as well as oversight of algorithm related results to ensure high quality implementation.

Requirements:
- At least Bachelor Degree in Electrical, Mechanical, Computer Science, Controls Engineering or related field (candidates with Master Degree or PhD. are welcome)
- Experience in product design and software project leadership
- Experience in the application of control theory
- Embedded software development experience in C, C++
- Knowledge of residential heating/cooling equipment and applications
- Fluency in MATLAB/Simulink or similar tools for simulation of dynamic thermal processes
- Ability to design experiments to validate a control system’s performance as well as debug the implementation
- Design Closed Loop Simulators for quality assurance
- 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
