

HVAC Control Systems Application Engineer

The HVAC (Heating-Ventilation-Air Conditioning) Control Systems Application Engineer is mainly responsible for designing automatic indoor climate control systems utilizing the latest technology from Honeywell, Johnson Controls, and Tridium (among others). The HVAC Control Systems Application Engineer is a full-time professional position, working under the direct supervision of a licensed engineer (P.E.), while reporting directly to the Engineering Manager.

The successful candidate is a self motivated independent thinker, who masters new tasks quickly with minimal direction, has an eagerness to learn all that is required while rapidly assuming additional responsibility. He/she is constantly striving to improve his/her understanding of building automation systems, tools of the trade, and new products. This position is primarily a Monday-Friday office position, and as such the ideal candidate should live within (or relocate to) commuting distance from Danvers, MA.

Duties

- *Project Design (Primary Responsibilities)*
 - *Designs automatic temperature control systems and creates control system drawings, wiring diagrams, and equipment details using AutoCAD while adhering to company standards and material/labor budgets*
 - *Develops sequences of operations for how mechanical equipment should operate*
 - *Researches mechanical equipment and 3rd party interfaces for integration into automatic temperature control system*
 - *Organizes and assembles bill of materials/product data sheets for project submittal*
 - *Documents progress changes to control drawings*
 - *Orders material for projects*
 - *Interface with others (project managers, technicians, electricians, other contractors...etc) regarding design*
- *User Interface Development and System Configuration (Secondary Responsibilities)*
 - *Creates graphic representation of mechanical equipment utilizing industry standard software (Vykon, Honeywell, Johnson Controls...etc)*
 - *Develops user interface, including mobile user interface*
 - *Configures controller databases*
 - *Programs controllers to specified sequence of operation*
 - *Creates floor plans (Using AutoCAD)*
- *Site Monitoring and Verification (Secondary Responsibilities)*
 - *Monitors customer sites for issues (programming or otherwise) and opportunities for improvement*
 - *Reports to customer (system health check)*
 - *Troubleshoots and provides customer support*
 - *Other Duties as Required*

Required Proficiency

- *AutoCAD or Similar*
- *General PC Proficiency*
- *Microsoft Windows*
- *Microsoft Office (Word, Excel, Outlook...etc)*
- *Standard Web Browsers (Internet Explorer, Firefox, Chrome...etc)*

Preferred Experience

- *HVAC Control Systems*
- *Adobe Photoshop and Acrobat Professional*
- *General Programming Skills/Database Skills*
- *Niagara AX, Niagara N4, Vykon, Honeywell, Johnson Controls, Graphics*
- *HTML5*
- *LonWorks, BACnet, MODBUS, N2*

Education/Experience

- *Bachelor's Degree from Accredited University or Equivalent in Related Field and/or Equivalent Experience*
- *EIT (Engineer-in-Training) Desired, Passed Fundamentals of Engineering Exam*

About Burnell Controls, Inc

Burnell Controls designs, installs, and maintains systems that control the comfort of buildings (schools, universities, large commercial, government...etc) using a network of advanced digital controllers and sensors. Burnell Controls is a medium size company successfully in business for over 20 years, currently with a full-time team of around 25 (engineers, programmers, technicians, electricians, service, admin, HR.etc), headquartered in Danvers, MA, 18 miles north of historic Boston. Burnell Controls offers a full line of benefits, including health/dental insurance, IRA with company match, paid holidays, paid sick days, and paid personal days.