AUBURN
Human Resources

Tech II, Controls Systems

Job Description

JOB INFORMATION

Job Code	ND17
Job Description Title	Tech II, Controls Systems
Pay Grade	ST15
Range Minimum	$55,130
33rd %	$67,990
Range Midpoint	$74,420
67th %	$80,860
Range Maximum	$93,720
Exemption Status	Non-Exempt
Approved Date:	1/1/1900 12:00:00 AM
Legacy Date Last Edited	8/9/2019

JOB FAMILY AND FUNCTION

Job Family:	Production & Skilled Trades
Job Function:	Mechanic

JOB SUMMARY

Solves complex problems related to the control systems that direct the operation of building heating, ventilation, air conditioning and equipment. Assesses building system performance against design parameters and implements necessary changes to ensure efficient and effective energy performance. Programs advanced control equipment and building automation systems to implement such changes. Responsible for digital, electronic, pneumatic, lighting and utility metering control systems.

RESPONSIBILITIES

- Assesses and troubleshoots the performance of complex building air condition, heating, ventilating, lighting, and related systems against designed operating parameters in terms of electrical, chilled/hot water and domestic water usage, energy efficiency and air quality. Monitors building system performance using the Johnson Controls Metasys and other building automation systems. Uses equipment to take flow and pressure measurements for air, water, and HVAC systems. Develops repair strategies for bringing these building systems back within the designed control parameters for improved performance. Identifies equipment that is not performing properly and initiates work orders/projects to repair or replace. Identifies equipment controls that are not operating properly and repairs, replaces, or reprograms the controllers to ensure optimal system performance. Installs, operates, repairs, calibrates, adjusts, replaces and monitors digital, electric, and/or pneumatic building control systems components and making necessary corrections to match building and occupant requirements for campus buildings.
- Programs the software of digital building controls, at both the equipment and system level, including HVAC, utility meters, lighting, fume hoods, and laboratory systems, internet addressable thermostats and other Smart Building technologies, to make modifications and improvements to system performance; connect new equipment, components, and sensors into the building control system; implement scheduled operations for daily use, including normal and special scheduling for campus spaces; and update, troubleshoot, debug, monitor, and revise software for building control systems.
- Works with campus and consulting engineers in the design of capital and repair/renovation projects to review building control systems designs to ensure that they are implementable, functional, and maintainable and they address critical building performance requirements or operational issues. Participates in the building commissioning process at the completion of a project to ensure that all building control systems are operation as designed and all equipment is functioning properly per the designed control sequences prior to University acceptance of the building.
- May be responsible for meeting and maintaining training and certification requirements as outlined by the Auburn University Facilities Management Policy: "Training, Education, and Certification Requirements for Mechanical and Electrical Trades Personnel".
- May be required to serve in an on-call status and remain work-ready when scheduled for an on-call period or rotation. Work-ready status requires an employee to return to the worksite within forty-five minutes while

RESPONSIBILITIES

	being physically and mentally unimpaired and fit for duty, able to safely perform all essential job functions with no risk to self, coworkers, students, public, or property.

The responsibilities listed above show the typical duties for jobs in this classification. Actual tasks may differ depending on the department's needs. Other similar duties may be assigned with discretion of the supervisor. Not every duty will apply to every position, and the amount of time spent on each task can change based on department needs.

SUPERVISORY RESPONSIBILITIES

Supervisory Responsibility	May be responsible for training, assisting or assigning tasks to others. May provide input to performance reviews of other employees.

MINIMUM QUALIFICATIONS

To be eligible, an individual must meet all minimum requirements which are representative of the knowledge, skills, and abilities typically expected to be successful in the role. For education and experience, minimum requirements are listed on the top row below. If substitutions are available, they will be listed on subsequent rows and may only to be utilized when the candidate does not meet the minimum requirements.

MINIMUM EDUCATION & EXPERIENCE

Education Level	Focus of Education		Years of Experience	Focus of Experience	
Some college; vocational or Associate's Degree	Associates Degree in Control Systems, Heating, Ventilating, or Air Conditioning (HVAC), Electrical, Digital Electronics, Energy Management or related degree is required.	and	13 years of	experience working in control systems. Three years of which must have been at the HVAC, Electrician, Plumber or Plant Operations Technician III level or equivalent. experience working on control systems on the Auburn University Campus to ensure familiarity with campus systems.	And

Substitutions Allowed for Education	Yes

Substitution allowed for Education: When a candidate has the required experience, but lacks the required education, they may normally apply additional relevant experience toward the education requirement, at a rate of two (2) years relevant experience per year of required education.

MINIMUM KNOWLEDGE, SKILLS, & ABILITIES

Knowledge of HVAC, electrical, plumbing, utility plant, or high voltage distribution systems at the HVAC, Electrician, Plumber, Plant Operations, or High Voltage Electrician skills at the Technician III level.	
Knowledge of building automation systems, building systems control components, digital electronics, Direct Digital Control (DDC) systems and components, pneumatic control systems and components, control theory, and expertise in energy management systems.	
Knowledge of how to program in the Johnson Control Metasys Energy Management System.	
Knowledge of how to program in the energy management and building automation systems produced by other manufactures.	
Ability to program and modify control sequences for HVAC, Electrical, or Utility system control equipment.	
Ability to program building control systems to implement scheduled operations for daily use, including routine and special scheduling for campus spaces.	
Ability to solve complex HVAC/energy control problems.	
Ability to install, operate, repair, troubleshoot, calibrate, adjust, replace and monitor electronic, electric and/or pneumatic building control systems for HVAC, lighting, fume hood and laboratory systems and utility metering; including adjusting complex HVAC systems and making necessary corrections to match building and occupant requirements for campus buildings.	
Ability to troubleshoot, debug, monitor, and revise software for building control systems including HVAC, utility meters, lighting, Internet addressable thermostats and other Smart Building technologies. Use equipment to take flow and pressure measurements for air and water HVAC systems.	

MINIMUM LICENSES & CERTIFICATIONS

Licenses/Certifications	Licenses/Certification Details	Time Frame	Required/ Desired	
DL NUMBER - Driver License, Valid and in State		Upon Hire	Required	

PHYSICAL DEMANDS & WORKING CONDITIONS

Physical Demands Category:	Other

PHYSICAL DEMANDS

Physical Demand	Never	Rarely	Occasionally	Frequently	Constantly	Weight
Standing				X		
Walking				X		
Sitting			X			
Lifting	X					
Climbing				X		
Stooping/ Kneeling/ Crouching				X		
Reaching				X		
Talking			X			
Hearing				X		
Repetitive Motions				X		
Eye/Hand/Foot Coordination				X		

WORKING ENVIRONMENT

Working Condition	Never	Rarely	Occasionally	Frequently	Constantly
Extreme cold					X
Extreme heat					X
Humidity					X
Wet					X
Noise					X
Hazards					X
Temperature Change					X
Atmospheric Conditions					X
Vibration					X

Vision Requirements:

Ability to see information in print and/or electronically.