

## Energy Engineer

Division of Facilities in Manhattan, KS is seeking applicants for a full-time Energy Engineer. Core duties for this position include: **Energy and Commissioning** – Identification / initiation of energy reduction opportunities in the University's diverse buildings, utility systems, by review of Architectural and Engineering documents, through inspection of ALL facilities, and in communication with the Campus Community; **Controls** – Management of the campus Building Automation system which includes connected systems of Energy Management, HVAC, Fire, Security, Door Access, Digital Video Monitoring, etc.; **Utilities Reporting and Metering** – Management of the campus utility accounts, utility purchases (hedging), forecasting, metering, meter reading, data acquisition, reporting, analyzation and interaction with KSU accounting for billing processes; **Preventive Maintenance** - Identification of Preventive Maintenance measures across ALL building systems, and develop prescriptive retro commissioning plans for Campus buildings and Systems. Duties also include contract management of service contracts, i.e. Honeywell and ESCO contracts/projects.

### Qualifications:

- Minimum: Bachelor's Degree in Engineering, Architecture, Construction Management or related field. A required combination of five years of experience in energy management, engineering, utility reporting and conservation, and/or supervision (five years of which shall have been in a managerial capacity). Five years of management in one of the following areas: budget planning and control; budget forecasting; administrative supervisory responsibilities including establishing policies, procedures, and goals. General knowledge of building commissioning and Leadership in Energy and Environmental Design (LEED) certification process.
- Preferred: Professional Engineering License (PE) or Master's degree in Architecture and/or Engineering. CEM License (Certified Energy manager). LEED Accredited professional. 5-7 years of experience in project delivery, experience in a university setting or similar environment

### Essential Functions:

- **Energy and Commissioning** - Identify and initiate energy reduction opportunities in the University's diverse buildings, utility systems, by review of Architectural and Engineering documents, through inspection of ALL facilities, and in communication with the Campus Community. Analyze, monitor and assist in the development and implementation of energy conservation measures. Lead in assessing buildings for energy audits to identify energy conservation measures and to determine optimum utilization of Utility, HVAC, electrical, lighting and control systems, through implementation of Comprehensive Building Retro-Commissioning program.
- **Controls** - Provide leadership and oversight for managing the campus Building Automation system which includes connected systems of Energy Management, HVAC, Fire, Security, Door Access, Digital Video Monitoring, etc. Strategic oversight and management of building automation system installed in buildings to control and monitor building mechanical and electrical equipment such as ventilation, lighting, power systems, fire systems, security systems, and energy monitoring systems. Responsible for occupancy control of connected systems, monitoring system performance, establishing specific data trends and enforcing set-points (ie. temperature, flow, pressure, etc.) across all campus systems. For new projects and renovations of existing space, responsibilities include working with Control Systems Contractor and Project

Engineer to review submittals to achieve core objectives and Campus uniformity. Responsible for configuration, programming of physical devices (ie. Utility meters, controllers, network adapters, etc.), and for developing and maintaining the network configuration and structure to support ALL connected systems.

- **Utilities Reporting and Metering** - Provide leadership and oversight for managing campus utility accounts, utility purchases (hedging), forecasting, metering, meter reading, data acquisition, reporting, analyzation and interaction with KSU accounting for billing processes. Duties include but are not limited to providing current budgetary information on utility consumption with pertinent utility reports, integrated with KSU budget allocations and estimates. Management of Utilities to include purchasing of utilities (water, sewer, natural gas, electricity, fuel oil, etc), development of usage reports, analysis of energy consumption and meter reading. Provide up-to-date budgetary information on utility consumption with pertinent utility reports, integrated with budget allocations, estimates and to work with energy conservation projects. Review and analyze utility consumption with respect to building/system operation within the context of electricity, building controls, heating ventilation and air conditioning, plumbing, and plant generation in order to identify any unacceptable increases in usage. Responsible for meter maintenance, trouble shooting, and repair.
- **Preventive Maintenance** - Provide leadership for identification of Preventive Maintenance measures across ALL building systems, and develop prescriptive retro commissioning plans for Campus buildings and Systems. Plans and organizes the preventive maintenance tasks and work schedules with prioritization based on preserving building infrastructure/environment, safety, and systems/equipment that consume energy/utilities where their failure/degradation leads to excessive energy/utility consumption. Preventive Maintenance of buildings and equipment includes, but is not limited to: Steam Traps, Valves, Control Sensors, Utility Meters, Air Handling Units, (including belts and filters), electric motors, actuators, fans, roofs, doors, handrails, lights and ballasts, campus walk lights, exterior lights, restrooms, air compressors, and air dryers. Accepts responsibility for creating preventive maintenance procedures on all buildings and associated equipment for which the University incurs utility expenditures. Building assets and work orders shall be defined and established in the AIM Central Maintenance Management System.

### **Knowledge, Skills, Ability**

- Outstanding human relations and leadership skills, and the ability to function in a team environment.
- Working knowledge of energy management and conservation principles.
- Professional license in a related discipline.
- Working knowledge of steam, chilled water, potable water systems, and the distribution systems.
- Experience in managing a large building automation & controls system.
- Ability to foster a safe and cooperative work environment.
- Line management experience with a proven track record of safety excellence, solid judgment, decision making, budget management, and environmental stewardship.
- Proven track record of leadership and creating an environment of employee involvement and continuous improvement.
- Strong interpersonal skills including the ability to effectively motivate and influence others.
- Ability to interface and effectively work with various groups and cultures.
- Individual must balance multiple competing priorities, meet deadlines, be responsive and thrive in a team environment.
- Strong analytical and strategic mind.

- Willingness to foster and incorporate change.
- Self-driven, results-orientated with a positive outlook and clear focus.
- Outstanding organizational and analytical skills.
- Ability to communicate effectively, both orally and in writing.
- Must have strong communication, organization and leadership skills.
- Proficiency with Microsoft Office (Word, Excel, and PowerPoint), Microsoft Project, and AutoCAD.
- Ability to travel to on and off campus locations for business activities.
- Valid driver license with good driving record

**Salary:** \$80,000 - \$100,000

**Appointment Conditions:** Full time regular 12-month appointment.

**To apply:**

- Submit a cover letter addressing how your qualifications and skills relate to the position.
- Submit a resume or curriculum vitae listing education, employment history, and other relevant professional information.
- Submit the names, phone number, and email address of three professional references.
- Submit unofficial transcript

**Email application material to:** [lmcgee@k-state.edu](mailto:lmcgee@k-state.edu) Subject Line: Energy Engineer  
OR

**Mail to:**

Larry McGee, Director, Administration and Finance  
ATTN: Energy Engineer  
Division of Facilities  
Kansas State University  
112 Dykstra Hall  
Manhattan, KS 66506

**Application Screening:** Screening of applications will begin on March 31, 2015 and continues until position is filled.

Kansas State University is an equal opportunity employer and actively seeks diversity among its employees. Background check required.