

Plant Engineer

Division of Facilities in Manhattan, KS is seeking applicants for a full-time Plant Engineer. Core duties for this position include: Steam and Chilled Water Plants and exterior utilities operations, planning and organizing schedules, defining and adhering to prescriptive O&M procedures for preventative maintenance, coordinating and forecasting maintenance procedures. Assist in defining critical Restoration & Repair projects with respect to funding allocations. Duties also include contract management, including but not limited to service contracts for, chilled water treatment, diagnostic analysis of equipment, plant operations, and upgrades / projects.

Qualifications:

- **Minimum:** Bachelor's Degree in Engineering, Architecture, Construction Management or related field. Six years of experience in mechanical building trades or plant operations. Education may be substituted for experience as determined relevant by the agency. Five years supervisory experience.
- **Preferred:** Professional Engineering License (PE) or Master's degree in Architecture and/or Engineering. Ten years of experience in building trades or mechanical building trades. Prefer management within a physical plant environment including: HVAC, plumbing, electrical, operation of a power plant, exterior utilities, and energy management systems. Working knowledge of asbestos removal, safe lead work practices, and cross connection and backflow prevention.

Essential Functions:

- **Plant Operations** - Administer all functions of the KSU Steam and Chilled Water Plants which operate 24 hours a day, 365 days a year. Schedule Plant maintenance, schedule all Plant employees work schedules, delegate authority and responsibility for appropriate tasks to supervisors with minimal direction of daily Plant operations, maintenance and projects. Plan for needs and write specifications for equipment and equipment maintenance, evaluate special needs necessary to complete work projects and determine equipment upgrade requirements. Approve final drafts of materials and equipment required to maintain reliable operation of the Plant. Visit daily with supervisors or as needed, reviewing plant operations and maintenance to ensure the effective utilization of resources. Review daily operation expenditures to ensure that costs do not exceed the budget, and serve as the primary on-call person at all times for Plant emergencies such as steam, chilled water, chemical spills, asbestos issues, and personnel accidents.
- **Exterior Utilities** - Provide uninterrupted utility service that includes: exterior medium (4160 and 12500) volt electrical distribution, exterior walk / street / parking electrical distribution, steam, chilled water, water, sanitary sewer, storm sewer, and natural gas distribution systems. Oversee the maintenance, repair, replacement and installation of water mains, sanitary sewer lines, chilled water lines, all steam lines above and below ground level, fire hydrants, steam traps, condensate pumps, expansion valves, etc. Maintain report log on manual and pneumatic pressure reducing stations and steam expansion joints. Ensure compliance with steam and condensate trap program. Establish an effective preventive maintenance program for all utilities. Coordinate and implement utility shutdown procedures, in conjunction with Zone Supervisors and appropriate trades within Zones.
- **Dig Safe** - Manage and oversee the utility locate (DIG SAFE) program. Program locates and field marks all underground utilities accurately, completely, and on time, in

accordance with Kansas Statutes and industry recognized standard procedures. Coordinates and organizes the daily tasks as the workload demands. Program assists the excavator, when necessary, to pin-point underground utilities as the excavator uncovers the soil or overburden. Aids in the survey collection for updating and maintaining the University's base and utility maps. Utilize conventional survey equipment, GPS, survey theodolite, survey transit, survey level, measuring tapes, field books, and field sketches.

- **Contract Management** - Administer and prepare all contracts with outside vendors that pertain to Plant operations such as control programs, chemicals, machinery, supplies, and asbestos abatement. Manage and oversee Service Level Contracts (i.e. Control systems, Chiller plant operations, ESCO Project(s), chilled water treatment, and diagnostic analysis of equipment). Manages work requests related to service contracts, maintenance contracts, and work / coordination with Facilities Personnel and Campus Community. In the event of utility outage or any Plant emergency that could affect campus security and / or operation, coordinate and respond directly with KSU police and Facilities / Shop personnel.
- **Plant Management** - Prepare and ensure balancing of the Utilities Production portion of Physical Plant budget for operations, capital improvement, special maintenance, equipment, and all necessary personnel costs. Review and evaluate the operating procedures and efficiency of the total Plant operation. Exercise full authority and oversight regarding any renovations within the Plants equipment, including: chillers, boilers, emergency generators, auxiliary machinery, electronic controls, EMS systems, heating lines, chilled water lines, water, sanitary sewer, natural gas, and electrical distribution. Review all blue prints and schematics for plant operation, upgrades, and renovations. Exercise authority and assume responsibility for compliance of all rules, regulations, and laws of the EPA, OSHA, KDHE, UB Codes, as well as campus safety regulations.
- **Energy** - Interact with other KSU Facilities Teams and KSU Energy Manager for operational review and efficiency. Identify, support, and advocate for energy management, conservation, and sustainability initiatives. Analyze, monitor and assist in the development and implementation of energy conservation measures. Assist with plant and utility energy audits to identify energy conservation measures. Analyze utilities and operations to determine the optimum utilization.
- **Administrative** - Interview and hire qualified personnel. Conduct initial, semi-annual and annual evaluations of shop personnel. Assign and review work of personnel. Conduct required training, maintain and encourage safety procedures, counsel shop personnel regarding job performance and expectations, and maintain positive communications with employees. Complete duties as assigned by supervisor.

Knowledge, Skills, Ability

- Provide vision and leadership in the management and direction of the organization
- Development, review and management of the Department's annual budget, performing cost and productivity analyses
- Benchmarking and measuring performance metrics against other like organizations
- Provides cost-effective maintenance and repair services for, utilities and equipment, ensuring a safe, pleasant and appropriate environment for all employees, students and guests of the University with a strong emphasis on customer-oriented service
- Provide direction and leadership in protecting the campus environment and conserving vital energy resources by staying involved with sustainability/conservation initiatives as they are developed, implemented and evaluated

- Provide management and staff development through skills training, safety and on-the-job training
- Organizes, reviews and directs studies for energy distribution, proposes alternatives and recommendations to the Assistant VP and staff members.
- Recommends the implementation of new and revised operation and maintenance procedures or modifies the programs to maximize the efficient utilization of time, equipment, and manpower in the upkeep and operation of Plants and exterior utilities.
- Valid driver license with good driving record upon employment

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: lmmcgee@k-state.edu Subject Line: Plant Engineer
OR

Mail to:

Larry McGee, Director, Administration and Finance
ATTN: Plant 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.