Lowell Observatory located in Flagstaff, Arizona, is seeking a Software Engineer, a position within the observatory's technology group. The Software Engineer is responsible for the continued development and support of the observatory's instrument control, data acquisition, and user interface software used across all Lowell observatory sites in northern Arizona including: the 4.3m Lowell Discovery Telescope, existing and planned 1-m class facilities on Anderson Mesa, and smaller aperture telescopes on Lowell’s main campus on Mars Hill. The position may be filled at any experience level.

RESPONSIBILITIES

The Software Engineer (SE) will support Lowell Observatory’s technology group. In particular, the SE will assist bringing new instruments and capabilities on line at the various facilities, and maintain and upgrade existing ones. The SE will work directly with the Lowell technical staff, particularly the instrument scientists and software engineers. New projects that the SE will be involved in are: fully-robotic telescope control systems, integration of new instrumentation and facilities, adaptive optics and wavefront sensing projects, site monitoring improvements, and the maintenance and upgrade of existing instrument and telescope control systems. The SE will generally support all technical activities across the observatory, and will work in conjunction with Lowell’s IT staff as appropriate on network and system administration. The SE also will provide occasional night-time support for telescope operators and observers when needed to resolve time-critical software-related issues.

QUALIFICATIONS AND EXPERIENCE

Candidates should hold a BS or MS in Computer Science, Computer Engineering, Astronomy, or a closely related field. A successful applicant will be able to demonstrate experience in some of the following areas and some familiarity with astronomy and astronomical instrumentation is desired. Given the broad scope below, expertise in all of them is not required or expected:

- Demonstrated ability to design effective, robust architectures for software systems
- Fluency with
  - Python, C/C++, and/or Java
  - Source/configuration management, especially testing and deployment
- Experience with:
  - Transitioning existing projects to more modern methods, especially improving documentation
  - Developing and refining automated/robotic control systems
  - Building user interfaces, either local or web-based; can include dashboards (especially Grafana)
  - Linux system administration, including networking and database management
- Ability to self-organize and prioritize work to meet timelines

Additionally, the SE should have strong communications skills, and should be prepared for occasionally time-critical and
potentially high-pressure situations.

**WORKING CONDITIONS**

The Software Engineer will work at elevations above 7000 feet, and temperatures can range from -20 to 80 degrees F. The work requires a moderate degree of climbing, walking, bending, reaching, and repetitive motions. Long periods of standing or sitting at a computer are required. Ability to lift up to 50 lbs. A valid driver’s license or ability to obtain one is required. Driving in winter conditions on mountain roads is to be expected. The position may include periods of night-time work, and weekend and holiday work is occasionally required to support ongoing observatory operations.

**Status:** Full-time, Regular  
**FLSA Classification:** Exempt  
**Compensation Type:** Salary  
**Compensation:** $75,000-$90,000 DOE  
**Benefit Eligible:** Yes  
**Location:** Flagstaff, Anderson Mesa, and Happy Jack, AZ

**To Apply:**  
Please send the following documents to humanresources@lowell.edu  
- Lowell Standard Application (www.lowell.edu/careers)  
- Letter of interest addressing your qualifications  
- Resume

Applications are reviewed weekly beginning March 21st. Position is open until filled.

*Benefits Overview: In addition to 11 scheduled paid holidays, Lowell Observatory offers a Flexible Paid Time Off policy for all full-time, benefit eligible employees which allows you to determine how much time you need to rest and enjoy yourself outside of work. Paid time off also includes paid Parental and FMLA leaves. The cost of premiums for medical, life & long term disability insurances for benefit eligible employees is 100% paid by the company, and includes a contribution to either an H.S.A or HRA account for first dollar medical expenses. A portion of dependent medical insurance is paid by the company. Up to a 5% match on retirement contributions after 6 months of employment and funds in lifestyle spending account provided by the observatory. Employment is subject to passing a background check

Lowell Observatory is proud to be an equal opportunity workplace and is an affirmative action employer. We are committed to equal employment opportunity regardless of race, color, ancestry, religion, sex, national origin, sexual orientation, age, citizenship, marital status, disability, gender identity or Veteran status. Lowell Observatory has always been, and always will be, committed to diversity and inclusion. We seek individuals from all backgrounds to join our teams, and we encourage our employees to bring their authentic, original, and best selves to work.

Lowell Observatory sits at the base of mountains sacred to tribes throughout the region. We honor their past, present, and future generations, who have lived here for millennia and will forever call this place home.

Lowell Observatory is committed to providing access, and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. Our non-smoking campus is at an elevation of 7,200ft/2200m, and the LDT is 40 miles south of Flagstaff at an elevation of 7,800 ft/2370m. If you need a reasonable accommodation for any part of the application and hiring process, please notify the Human Resources office for assistance.

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