POSITION ANNOUNCEMENT

SOFTWARE DEVELOPER

The software developer will work on a project under the supervision of Dr. Audrey Thirouin and Dr. William Grundy. The software developer will be responsible for the development and associated documentation of software to model the lightcurve variations of binary/multiple systems across the Solar System small body populations. This project is funded by a NASA-Solar System Observations grant (PI: Audrey Thirouin).

RESPONSIBILITIES

As a first step, the software developer will have to get familiarized with the current state and goals of the software. Then, they will be in charge of the design, development, implementation of specific routines, and testing of the entire software. Specific tasks include the development of:

- Implementation of rotating triaxial ellipsoids
- Implementation of systems with more than 2 bodies
- Implementation of a Markov Chain Monte Carlo (MCMC) package

All newly implemented routines and the ensemble software will have to be tested to verify functionality.

Finally, the software developer will also provide detailed software documentation.

QUALIFICATIONS AND EXPECTATIONS

Candidates should hold a BS or MS in computer science, engineering, or a closely related field. Knowledge in Planetary Sciences and/or Astronomy is not required for this position.

Expertise in some of the following is required:

- Ability to design, implement and test software/routine.
- Knowledge of C/C++ (preferred) and/or Python
- Ability to write detailed software documentation.
- Ability to learn new methods if required.
- Ability to work effectively to meet timelines.
- Some mathematical/statistical background is a plus.
- Remote work within the state of Arizona will be considered.

WORKING CONDITIONS

Long periods of standing or sitting at a computer are required.
Status: Part Time, Temporary through project completion
Hours: 20/hr a week for 5 months. (other weekly hour arrangements will be considered)
Compensation: $30/hour.
Benefit Eligible: Limited Part Time Benefits*
FLSA Classification: Hourly, Non-Exempt (Contractor/Vendor arrangement might be considered)

To Apply: Please send the following documents to jobs@lowell.edu
- Standard Application (www.lowell.edu/careers)
- Resume or CV
- Letter of interest addressing your qualifications
- Phone numbers and e-mail addresses of three references

The deadline for application submission is April 24th 2022. The expected start date is May 9th, but it is negotiable.

*Part Time employees will receive sick time accrual according to AZ state law. After 6 months of employment, part time employees are eligible to participate in a 5% match if they contribute 5% or more to their retirement plan, as well as 2 paid personal days per year. Additionally, after 6 months, funds in a lifestyle spending account will be available to the employee.

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.

VERSION April 2022/HR