



## Job Title: Software Engineer

### Job Description

Blue Skies Space Ltd (BSSL) is seeking to fill the position of “Software Engineer” as part of the Twinkle Space Mission preparation.

The successful candidate will work in close collaboration BSSL’s Lead Systems Engineer and Twinkle Project Scientist to use and develop data analysis and instrument performance pipelines to assess the mission capabilities to fulfil its science objectives. The role will require supporting the interfacing with scientists and industrial partners to refine and improve the data pipeline’s accuracy and to produce simulations. The Software Engineer will be responsible for the development and use of the pipeline tool, reporting to and with the lead systems engineer.

The successful applicant will have an MSc in Physics, Engineering, Computer Science or related research area. Candidates will be expected to have a working knowledge of a structured programming language, ideally python. Good experience in the performance analysis of infrared space instrumentation for exoplanet observations, including photometric and spectroscopic data, would be ideal.

### About Twinkle

Twinkle is a seven-year space science mission being built by Airbus and ABB that will unravel the story of planets within our galaxy. Collaborative international surveys will deliver visible and infrared spectroscopy of thousands of targets, enabling scientists to produce transformative research on exoplanet atmospheres, solar system objects, stars and stellar discs.

### Reports to

Lead Systems Engineer

### Essential Experience

- Experienced Python coder.
- Experience in highly numerical programming or data reduction techniques.
- Good initiative and capable to perform solo working.

### Desirable Experience

- Use data reduction pipelines for astronomy missions, such as ExoSim.
- Knowledge of infrared instrumentation.
- Knowledge of exoplanet transit spectroscopy.
- Applicants are encouraged to provide links to example code/code repository.

### Working arrangements

Full time. Working from home will be possible but regular meetings at London offices will be required.

### Salary

Competitive

### Application closing date

19/11/2021 – BSSL may recruit a successful candidate before closing date.