**Software Developer Intern**

**Manastu Space Technologies • Internship • Navi Mumbai, Maharashtra, India**

**About Manastu Space**

We are a **Space Safety** and **Logistics** Company, using technology to save a Trillion $ Space industry from **Debris Pollution in Space**. We believe that the problems of Earth can be solved using Space. However, the rapid increase in the number of satellites is also increasing the risk of **satellite collision**, leading to Debris pollution- making space a dangerous place for other satellites as well as astronauts. To prevent this, we are developing an **Agile, Safe, Efficient and Affordable** Green Propulsion Systemwith a new fuel, engine and catalyst for the engine to avoid satellite collision in space and prevent Debris Pollution, which can hence be a potential green alternative to the current monopropellant propulsion technology.

In this role, you will be responsible for the developing software and data analysis tools for Manastu's satellite propulsion systems ranging from CubeSat up to 1-tonne class.

**Responsibilities:**

* Design and develop data analysis software, algorithms, and visualization tools to process and analyze results from monopropellant engine and thruster tests.
* Work closely with propulsion test engineers to understand test requirements, data formats, and analysis needs. Translate those needs into software requirements and architecture.
* Build tools and dashboards to automatically process raw test data, perform calculations and correlations, and generate plots, charts, and reports to summarize test results.
* Continuously improve software design, efficiency, and analysis capabilities through new algorithms, better visualization, and enhanced data processing.
* Work on basic electrical components (e.g. microcontrollers), its programming, and processing data attained/sent on the same.

**Educational Qualification:**

* Bachelor’s degree in engineering (preferably from Aerospace/Avionics/Electrical/Electronics).
* Minimum work experience required: 0-1 years' experience with python.
* Experience in algorithm development and data analysis.
* Experience with LabView, Simulink, etc.
* Experience developing data visualization tools (e.g. matplotlib, plotly, bokeh, etc).
* Experience with data processing and statistical analysis.
* Experience working with large, complex datasets.
* Experience with software QA and testing processes.

**Knowledge/Skills:**

* Proficiency in programming languages like Python environmental software.
* Basic knowledge of propulsion systems and their working principles and associated components.
* Knowledge of data structures, algorithms, and software design principles.
* Strong analytical and problem-solving skills.
* Basic knowledge of engineering tasks (e.g. Integration, PID development, etc.)
* Ability to understand propulsion system testing Experience with data analysis tools like Python, MATLAB, etc.
* parameters and data.
* Understanding of software development lifecycle and documentation.
* Ability to work collaboratively in a team environment.
* Good communication skills.

If you are interested in building your career in the field of space or would like to explore options in the same, then this would be the best opportunity to give it a shot at our company. Do contact us for more information.

**Company Website and LinkedIn:**

<https://www.manastuspace.com/>

<https://www.linkedin.com/company/manastu-space/>

**Contact information:**

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