

Hello! from AgniKul.

Who are we?

AgniKul Cosmos Private Limited focuses on design, development and launching of all aspects of rocket launch vehicle technology. We are working on creating a small orbital class launch vehicle that will be designed in India.

(“AgniKul” is inspired by the sanskrit word “Gurukul”. Translates to: “a place where we learn to use fire”)

The company was founded with the sole idea of making space access affordable for everyone. Getting to space shouldn't be the hardest part about being space-faring. We would like to do our part in bringing space access to the common man. We strongly believe that making space access extremely cheap will open up currently unexplored paths in fields that are not even remotely linked to space today.

Advisors: We are both, very proud and thoroughly humbled to have an extremely accomplished set of advisors spread across senior scientists from ISRO, IIT-Madras, the Indian Govt. and even our customer base (i.e.. Cubesat developers) helping us accomplish this mission.

What do we offer?

We are not here to just give grunt work to interns and employees. (non AI) Computer programs do that really well. Our people will be working either directly help us shape the design of the rocket, or work with us on carving out the business strategy, or build an operations framework for an international supply/chain problem in rocket manufacturing.

Eligibility

We strongly prefer working with interns and employees who are passionate about aerospace and willing to work with us for long term

SOFTWARE ENGINEER

If you belong to the category of typing a semicolon instead of a full stop, this is for you;

We are syntax agnostic in our search (any language experience is okay!);

We are looking for people who can think like OOPs programmers;

Of course, Matlab, C++, Python won't be a bad thing to know;

RESPONSIBILITIES

- Work with Propulsion and GNC Engineers to code engine characterization, carry out simulations, and integrate programs into flight control algorithms
- Work interdisciplinary trades (e.g. with Avionics, GNC, Thermal, and Structures) that result in the most optimal vehicle level configuration

BASIC QUALIFICATIONS:

- Bachelor's degree in computer science, physics, electrical engineering, or equivalent engineering discipline
- Understands the basic physics behind projectile motion
- Applied experience coding in an object-oriented language

PREFERRED SKILLS AND EXPERIENCE:

- Proven ability to design and implement robust and scalable systems with flexible and scalable UI that meets future needs
- Professional experience in C/C++, Java, JavaScript
- Professional experience with standard front-end technologies like modern HTML, CSS, JavaScript (we use AngularJS, Polymer, Backbone.js, React, and more), REST, JSON
- Deep understanding of object oriented programming
- Deep understanding of distributed, horizontally scalable systems
- Experiences with cloud technologies such as AWS, Azure or Google Cloud Engine
- Focus on performance bottlenecks and performance improvement techniques
- Familiar with basic principles of compressible and incompressible flow, thermodynamics, thermochemistry, mechanics, materials, and electrical circuits
- A background in scientific computing, high-performance computing, or mathematics
- Strong skills with debuggers, profilers, and unit testing
- Interest in/competence with multiple languages and technologies (Python, C++, MATLAB, SQL)
- Familiar with Agile software development techniques, particularly Test-Driven Development, and Continuous Integration
- Experience with database management
- Able to prioritize and execute tasks in a high-pressure environment with ongoing drive for continuous improvement in all aspects of work
- Excellent communication skills and ability to succinctly present recommendations to stakeholders, the customer, and management
- Able to work well in an integrated collaborative team environment, including frequent interactions with technicians, other engineers, and managers

What you could take away?

- Your work will directly impact the company's (and the rocket's) trajectory
- You will learn rocket science from some of the most senior and respected minds in ISRO
- You will work on shaping space policy in India
- You will dirty your hands in a global supply/chain optimization problem

Location

- Chennai, India
- Remote working can be considered on a case-by-case basis



Launch rockets anywhere, anytime, affordably.

Employment Type

- Internship
- Part Time
- Full Time
- PhD Programs

In conclusion

A rocket, like anything else, is just the outcome of the right group of individuals coming together and working towards a common vision. We deeply value people we work with and are looking to collaborate with some of the best minds in the country to bring space closer to earth.

Pls. send us a three line email about yourself and a resume to : humancapital@agnikul.in if you are interested.