

Hello! from AgniKul.

Who are we?

AgniKul Cosmos Private Limited focuses on design, development and testing 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. Computer programs do that really well. Our employees will be either directly helping 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 space and willing to work with us for long term

Job Title : Astrodynamics Researcher (physics)

If you are intrigued by knowing that Newton was born in the exact same year Galileo died this job is for you.

If you know Kepler's second law and Kepler's third law where the result of a careful set of mistakes that luckily cancelled out in his favor - this job is for you.

If you think the importance of engineering is overrated (and that of physics is underrated) in rocket design, this job is for you.

Responsibilities:

- Leads/Co-leads the mathematical and physical design problem of trajectory design for a continuously accelerating rocket
- Explore approaches for designing satellite trajectories
- Guide development of new software or algorithms to support trajectory design

- Selection of guidance parameters and navigation constants based on celestial body dynamics
- Analysis to verify compliance with contractual mission requirements including direct customer interface
- Documentation of analysis and test results with a focus on automation and efficiency of reporting
- Testing math and physics assumptions behind simple flight software

Basic Qualifications:

- Bachelor's degree in Physics or Mathematics
- Understanding of Celestial body mechanics, classical dynamics
- A basic understanding of spherical trigonometry

Preferred Skills and Experience:

- Masters degree in Physics or Mathematics
- Passion for physics and mathematics
- Passion for advancing the commercial space industry and human spaceflight
- Excellent communication skills both written and verbal

Additional Requirements:

- Must be available to work extended hours and weekends as needed.

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

Employment Type

- Internship
- Part Time
- Full Time
- PhD Programs support

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.



Launch rockets anywhere, anytime, affordably.

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