

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

Propulsion engineer:

If you understand questions like “What is the Isp of coffee?” - this is for you.

If you think injector plate design is the hardest part of liquid engine - this is for you.

If you have googled for the chemical composition of RP1 kerosene - this is for you.

RESPONSIBILITIES:

- Design, analyze, build, and test propulsion engines, fluid components (i.e., valves, instrumentation, etc.), tanks/pressure vessels, and/or fluid systems

BASIC QUALIFICATIONS:

- Bachelor's degree in aeronautical/astronautical, aerospace or mechanical engineering
- 1 year of experience with design (CAD), analysis (structural and fluids), and materials
- System level understanding of liquid rocket engines

PREFERRED SKILLS AND EXPERIENCE:

- Master's degree in aeronautical/astronautical, aerospace or mechanical engineering
- Strong understanding of spacecraft and/or launch vehicle propulsion systems and fluid components
- Experienced in NX 8.5 or other CAD package (such as CATIA) with a solid understanding and application of geometric dimensioning and tolerancing
- Proficient in basic principles of compressible and incompressible flow, thermodynamics, thermochemistry, mechanics, materials, and electrical circuits
- Project experience with FEMAP, ANSYS, or similar finite element analysis (FEA) software tools, as well as good understanding of fatigue, fracture, and crack propagation
- Knowledge of metallic and fluid system manufacturing techniques, processes, equipment, and other processes such as: machining, electron beam welding, orbital tube welding, tube bending, structural assembly, etc.
- Good understanding and experience working with aerospace materials (metals, plastics, composites)
- Ability to perform trade studies using first principles and engineering fundamentals to make clear recommendations even with partial information
- Able to work well in an integrated collaborative team environment, including frequent interactions with technicians, other engineers, and managers
- Highly self-motivated with strong organizational and written/oral communication skills – able to prioritize and execute tasks in a high-pressure environment with ongoing drive for continuous improvement in all aspects of work

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



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.