

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

Aerodynamics engineer

If you know why a bird draws its wings backwards while it flies, this is for you.

If you think the drag coefficient of Usain Bolt is not the same as yours, this is for you.

If you think we are all scuba divers at the very bottom of an ocean filled with a fluid called air, this is for you.

RESPONSIBILITIES:

- Perform aerodynamic configuration trade studies on mission performance that includes effects of weight, fuel, stability and control, propulsion, and payloads.
- Use CFD to analyze air flow for vehicle exterior and interior systems
- Develop aerodynamic data bases for use in 6 degree of freedom simulation models.
- Assist in building functional prototype parts for use in physical testing

- Participate in physical aerodynamic testing (dragmeter, windtunnel)
- Maintain documentation to organize procedures and data
- Identify opportunities on the vehicle for increased aerodynamic efficiency and present ideas for further development
- Working with vendors to increase aerodynamic performance
- Become immersed with various engineering groups to convey aerodynamic results and protect aero performance through product design

BASIC QUALIFICATIONS:

- Bachelor's degree in an engineering discipline
- Experience with Finite Element Analysis (FEA) and commercial tools: ANSYS, Nastran, or Abaqus
- Excellent understanding of aerodynamics principles
- Some understanding of systems engineering.

PREFERRED SKILLS AND EXPERIENCE:

- Master's degree or PhD in an engineering discipline
- Strong background in solid mechanics and aeroacoustics
- Expert on subsonic, transonic, supersonic and hypersonic flow profile regimes.
- Excellent oral and written communication skills
- Ability to deliver against an aggressive schedule

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

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.