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

Controls Engineer
If you like to think the other extreme of the north pole is north zero - this is for you
If you don't need someone to tell you LQR is good enough - this is for you
If you believe lead-lag compensation is the essence of all human interactions - this is for you

Responsibilities:
- Leads the controller design and integration process for launch vehicle control systems and related components

Basic Qualifications:
- Bachelor's Degree in Electrical engineering, Electronics & Communications engineering
- Highly developed computer skills using EE design/analysis software
- Good understanding of product development and Control network (CAN)

- Decent software programming skills

Preferred Skills and Experience:

- Masters degree in Electrical engineering, Electronics & Communications engineering
- 2+ experience with spacecraft ACS hardware and software development - ACS design, manufacture, simulation, and test
- 2+ experience with mechanical systems and engines
- Hands on experience using electrical/software test and analysis equipment
- Good understanding of orbital mechanics, multi-body dynamics, and controls-structures interaction
- Experience with static constrained optimization, calculus of variations, dynamic optimization, maximum principle, Riccati equations, learning and adaptation in controllers, policy- and value-iteration.

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

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.