Company :	**Agnikul Cosmos**
Company Name :	**Agnikul Cosmos**
Nature Of Business :	**Manufacturing**
Designation :	**Astrodynamics Researcher**
Tentative Job Location :	Chennai

Description :

Launch rockets anywhere, anytime, affordably.
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:
â— Leads/Co-leads the mathematical and physical design problem of trajectory design for a continuously accelerating rocket
â— Explore approaches for designing satellite trajectories
â— Guide development of new software or algorithms to support trajectory design
AgniKul Cosmos Private Limited, Chennai | www.agnikul.in | humancapital@agnikul.in
+91-9962507524 |+91-9677282356
Launch rockets anywhere, anytime, affordably.
â— Selection of guidance parameters and navigation constants based on celestial body dynamics
â— Analysis to verify compliance with contractual mission requirements including direct customer interface
â— Documentation of analysis and test results with a focus on automation and efficiency of reporting
â— Testing math and physics assumptions behind simple flight software
Basic Qualifications:
â— Bachelor's degree in Physics or Mathematics
â— Understanding of Celestial body mechanics, classical dynamics
â— A basic understanding of spherical trigonometry
Preferred Skills and Experience:
â— Masters degree in Physics or Mathematics
â— Passion for physics and mathematics
â— Passion for advancing the commercial space industry and human spaceflight
â— Excellent communication skills both written and verbal
Additional Requirements:
â— Must be available to work extended hours and weekends as needed.
What you could take away?
â— Your work will directly impact the company's (and the rocket's) trajectory
â— You will learn rocket science from some of the most senior and respected minds in ISRO
â— You will work on shaping space policy in India
â— You will dirty your hands in a global supply/chain optimization problem
Location
â— Chennai, India
â— Remote working can be considered on a case-by-case basis
Employment Type
â— Internship
â— Part Time
â— Full Time
â— PhD Programs support
In conclusion
A rocket, like anything else, is just the outcome of the right group of individuals coming together

Eligibilty :

Program	AE	BSBE	CE	CHE	CSE	EE	ES	ME	MSE	PHY	CHM	MTH	ECO	DES	IME	CGS	HSS	EEM	MSP	NET	PSE	Stats
BT	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	--	--	--	--	--	--	--	--	--	--	--	--	--
BS	--	--	--	--	--	--	Yes	--	--	Yes	Yes	Yes	Yes	--	--	--	--	--	--	--	--	--
MT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--	Yes	--	--	Yes	Yes	Yes	Yes	--
DoubleMajor	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--	--	--	--	--
dual	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--	--	--	--	--
dualB	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	--	--	Yes	--	Yes	Yes	--
dualC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--	--	--
Mdes	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--	--	--	--	--	--	--
MBA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--	--	--	--	--	--
Phd	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MSc	--	--	--	--	--	--	--	--	--	Yes	Yes	Yes	--	--	--	--	--	--	--	--	--	Yes
MSR	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	--	--	--	--	--	Yes	--	--	--	--	Yes	Yes	--

Cost to Company :

B.Tech - 15 LPA

M.Tech - 10 LPA
Salary breakup for B.Tech

Salary Components (Break-up)				
Particulars	**No.**	**Monthly**	**Yearly**	**Remarks**
Basic Salary	a	45000	540000	
Dearness Allowance	b	5000	60000	
HRA (House Rent Allowance)	c	25000	300000	
Other Allowance	d	25000	300000	
Special Allowance	e	25000	300000	
LTA (Leave Travel Allowance)	f	Nil	Nil	
Gross Salary (a+b+c+d+e+f)	**g**	**1,25,000**	**15,00,000**	**Cost to Company**
Statutory Compliance		-		
Provident Fund (P.F.)	h	1800	21600	Subject to Maximum of Rs. 15,000 (Basic + DA)
Employee State Insurance (E.S.I.)	i	Nil	Nil	
Professional Tax	j	209	2508	
Group Medical and Personal Accident Insurance T&C*	k	406	4872	
TDS (Tax Deducted at Source)	l	13023	156276	
Total Deduction (h+i+j+k+l)	**m**	**15,438**	**1,85,256**	Deduction for PF, ESI, Income and Professional Taxes
Variable Components		-		
Esops	n	Nil	Nil	Nil

(Share,Stock etc.)				
PLI (Performance Link Incentive)	o	25000	300000	It is purely linked to the performance which will be paid as per the company policy (ONCE A YEAR PAYMENT ONLY)
Bonus (Joining bonus etc.)	p	Nil	Nil	Paid as per the company policy
Total Variable Components (n+o+p)	**q**	25,000	**3,00,000**	
Net Salary - (g-m-q)	**r**	**84,562**	**10,14,744**	

Package Details :

Salary Breakup for M.Tech

Salary Components (Break-up)				
Particulars	**No.**	**Monthly**	**Yearly**	**Remarks**
Basic Salary	a	26250	315000	
Dearness Allowance	b	2917	35004	
HRA (House Rent Allowance)	c	14583	174996	
Other Allowance	d	14583	174996	
Special Allowance	e	25000	300000	
LTA (Leave Travel Allowance)	f	Nil	Nil	
Gross Salary (a+b+c+d+e+f)	**g**	**83333**	**9,99,996**	**Cost to Company**
Statutory Compliance		-		
Provident Fund (P.F.)	h	1800	21600	Subject to Maximum of Rs. 15,000 (Basic + DA)
Employee State Insurance (E.S.I.)	i	Nil	Nil	
Professional Tax	j	209	2508	
Group Medical and Personal Accident Insurance T&C*	k	406	4872	
TDS (Tax Deducted at Source)	l	3265	39180	
Total Deduction (h+i+j+k+l)	**m**	**5,680**	**68,160**	Deduction for PF, ESI, Income and Professional Taxes
Variable Components		-		
Esops (Share,Stock etc.)	n	Nil	Nil	Nil
PLI (Performance Link Incentive)	o		300000	It is purely linked to the performance which will be paid as per the company policy

				(ONCE A YEAR PAYMENT ONLY)
Bonus (Joining bonus etc.)	p	Nil	Nil	Paid as per the company policy
Total Variable Components (n+o+p)	**q**		3,00,000	
Net Salary - (g-m-q)	**r**	52,653	6,31,836	

Bond :	**False**
CPI CutOff :	**0.0**
Medical Requirments :	
Resume Shortlist :	**True**
Resume Shortlist Criteria:	**N/A**
Aptitude Test:	**True**
Aptitude Test Duration:	**2 hrs**
Group Discussion:	**True**
Group Discussion Duration:	**2 hrs**
Group Discussion Strength:	**N/A**
Technical Test:	**True**
Technical Test Duration:	**2 hrs**
Technical Interview:	**True**
Technical Interview Duration:	**N/A**
Number of Techincal Interview Rounds:	**2**
HR Interview:	**True**
HR Interview Duration:	**N/A**
Additional Information:	