

Company :
Company Name :
Nature Of Business :
Designation :
Tentative Job Location :

Agnikul Cosmos
Agnikul Cosmos
Manufacturing
Electric Motor Designer
Chennai

Description :

**Electric Motor Designer Eligibility** We strongly prefer working with individuals who are passionate about aerospace and are willing to work with us for the long term.
**WHAT IT TAKES** If you like to think what goes around, comes around - this is for you
If you have wondered why magnetic poles are never lonely - this is for you
If you have wondered if every motor is a Faraday's cage - this is for you
**RESPONSIBILITIES**
• Leads/owns the electromagnetic development of custom high-performance electric motors and actuators across PMDC, AC Inductor Motors and/or brushless DC motor.
• Design of all aspects of AC universal motor (magnetic circuit, winding, brushes, brush holder, commutator, material selection.)
• Understand the development of alternate motor types such as High Voltage PM DC and Brushless DC motors, high frequency induction motors etc.
• Support in selection of Brushless DC electric motor and PMDC motors.
• Ownership of all aspects of motor design including motor system mechanical and electrical components such as armature, output shaft, terminals, etc.
Aids in the creation of CAD and 2D drawings for stators, rotors and assemblies
• Develops the design for winding architecture, magnetic architecture, flux carrier stamping and lamination joining.
• Creates framework for insulation systems, interconnections, thermal systems, sensing, Identifying and qualifying suppliers of raw materials, components, and assemblies.
• Validates performance and derives and delivers a durability testing profile.
• Designs keeping in mind - DFM, cost reductions, and second.
• Architects and performs thermal performance analysis for magnetic designs.
• Be able to perform : GD&T, 3D & 2D Drawings, DFMEA, PFMEA, structural & thermal FEA.
**EXPERIENCE**
• BS or MS in Mechanical or Electrical Engineering or similar discipline.
• 2+ years' work experience in motor design or electrical machines.
• Experience and familiarity with Finite Element Analysis.
• Experience and familiarity with electro-magnetics, 3 phase power systems.
• Experience with building of prototypes.
• Experience with SolidWorks is a plus.
**ADDITIONAL REQUIREMENTS**
• Must be available to work extended hours and weekends as needed..
What you could take away?
• You might have designed one of the most compact electric motors in the world!
• 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
**Employment Type:** Full Time
**If interested, please send your resume in PDF format and a 3 line email describing - who you are, why you want to apply to Agnikul and something interesting about yourself. Send resumes to [humancapital@agnikul.in](mailto:humancapital@agnikul.in)**

Program	AE	BS	BE	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--

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

Package  
Details :

<b>Statutory Compliance</b>		-		
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	
<b>Total Deduction (h+i+j+k+l)</b>	<b>m</b>	<b>15,438</b>	<b>1,85,256</b>	Deduction for PF, ESI, Income and Professional Taxes
<b>Variable Components</b>		-		
Esops (Share, Stock etc.)	n	Nil	Nil	Nil
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
<b>Total Variable Components (n+o+p)</b>	<b>q</b>	<b>25,000</b>	<b>3,00,000</b>	
<b>Net Salary - (g-m-q)</b>	<b>r</b>	<b>84,562</b>	<b>10,14,744</b>	

#### 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	
<b>Gross Salary (a+b+c+d+e+f)</b>	<b>g</b>	<b>83333</b>	<b>9,99,996</b>	<b>Cost to Company</b>
<b>Statutory Compliance</b>		-		
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	
<b>Total Deduction (h+i+j+k+l)</b>	<b>m</b>	<b>5,680</b>	<b>68,160</b>	Deduction for PF, ESL, Income and Professional Taxes
<b>Variable Components</b>		-		
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
<b>Total Variable Components (n+o+p)</b>	<b>q</b>		3,00,000	
<b>Net Salary - (g-m-q)</b>	<b>r</b>	<b>52,653</b>	<b>6,31,836</b>	

<b>Bond :</b>	<b>False</b>
<b>CPI CutOff :</b>	<b>0.0</b>
<b>Medical Requirments :</b>	
<b>Resume Shortlist :</b>	<b>True</b>
<b>Resume Shortlist Criteria:</b>	<b>N/A</b>
<b>Aptitude Test:</b>	<b>True</b>
<b>Aptitude Test Duration:</b>	<b>2 hrs</b>
<b>Group Discussion:</b>	<b>True</b>
<b>Group Discussion Duration:</b>	<b>2 hrs</b>
<b>Group Discussion Strength:</b>	<b>N/A</b>
<b>Technical Test:</b>	<b>True</b>
<b>Technical Test Duration:</b>	<b>2 hours</b>
<b>Technical Interview:</b>	<b>True</b>
<b>Technical Interview Duration:</b>	<b>2 hours</b>
<b>Number of Techincal Interview Rounds:</b>	<b>2</b>

**HR  
Interview:  
HR  
Interview  
Duration:  
Additional  
Information:**

**True**

**N/A**