

Job Notification Form, IIT Delhi

Company Overview

Name: Agnikul Cosmos Private Limited

Website: <https://agnikul.in/#/>

Company Type: Other (Aerospace and Defence)

Description: Agnikul Cosmos is an startup incubated in IIT Madras.

Job Details

Designation: NAVIGATION GUIDANCE AND CONTROL SYSTEMS ENGINEER

Type: Core (Technical)

Place of Posting: Chennai

Job Details: Works on independent sections of controller design and integration process for launch vehicle control systems and related components in the vehicle's guidance systems.
Specifically,
Aid in the development of Autopilot linear stability testing and analysis.
Design Non-linear 6DOF simulation analysis and scenario analysis.
Review system level and launch vehicle requirements.
Lead development and maintenance of software tools that predict pre-flight performance under nominal, off-nominal conditions.
Perform post flight verification of simulation predictions and Monte Carlo through multiple flight conditions.
Create hazards assessment programs and tools to understand probability of impact and expected damage from off-nominal and failure modes.
Support design reviews and milestones as necessary.
Assists independent sections of propulsion control systems.
Aid specifically, the development of some or all of the following.
Design of Mixture ratio control & stability analysis.
Integration of mixture ratio control, electric motor speed control and propellant utilization loops.
Development of system level requirements for cross coupled dynamics between propellant utilization algorithms and vehicle guidance / autopilot algorithms.
Support design reviews and milestones as necessary.
Supports hardware design & implementation of the vehicle across multiple control systems.
Analog and mixed signal design with focus on launch vehicle hardware.
Board level design for both ground checkout systems and flight hardware.
Support design reviews and milestones as necessary.

Joining By: 1 November 2021

Salary Details

| | |
|---------------------|-----------------------------------|
| CTC: | 1,500,000 INR Per Annum |
| Gross: | 1,200,000 INR Per Annum |
| CTC Breakup: | Fixed 1200000 and Variable 300000 |

Selection Process

| | |
|----------------------------|-----|
| Resume Shortlist: | Yes |
| Written Test: | Yes |
| Online Test: | No |
| Group Discussion: | No |
| Medical Test: | No |
| Personal Interview: | Yes |
| No. of Rounds: | 3 |
| No. of Offers: | 5 |
| Minimum CGPA: | 8 |

Eligibility

| | |
|-------------------------|-----|
| Recruiting PHDs: | Yes |
|-------------------------|-----|

| | |
|------------------------------|---|
| Eligible Departments: | B.Tech in Biochemical Engineering & Biotechnology, B.Tech in Chemical Engineering, B.Tech in Civil Engineering, B.Tech in Computer Science & Engineering, B.Tech in Electrical Engineering, B.Tech in Electrical Engineering (Power and Automation), B.Tech in Engineering Physics, B.Tech in Engineering and Computational Mechanics, B.Tech in Materials Engineering, B.Tech in Mathematics & Computing, B.Tech in Mechanical Engineering, B.Tech in Production & Industrial Engineering, B.Tech in Textile Engineering, M.Tech in Applied Optics, M.Tech in Atmospheric-Oceanic Science and Technology, M.Tech in Biomedical Engineering, M.Tech in Chemical Engineering, M.Tech in Communications Engineering, M.Tech in Computer Science & Engineering, M.Tech in Computer Technology, M.Tech in Construction Engineering & Management, M.Tech in Control & Automation, M.Tech in Energy & Environment Technologies and Management, M.Tech in Energy Studies, M.Tech in Engineering Analysis & Design, M.Tech in Environmental Engineering & Management, M.Tech in Fibre Science & Technology, M.Tech in Geotechnical and Geoenvironmental Engineering, M.Tech in Industrial Engineering, M.Tech in Industrial Tribology & Maintenance Engineering, M.Tech in Instrument Technology, M.Tech in Integrated Electronics & Circuits, M.Tech in Materials Engineering, M.Tech in Mechanical Design, M.Tech in Molecular Engineering: Chemical Synthesis & Analysis, M.Tech in Optoelectronics & Optical Communication, M.Tech in Polymer Science & Technology, M.Tech in Polymer Science and Technology, M.Tech in Power |
|------------------------------|---|

Electronics, Electrical Machines & Drives, M.Tech in Power Systems, M.Tech in Production Engineering, M.Tech in Radio Frequency Design & Technology, M.Tech in Rock Engineering & Underground Structures, M.Tech in Solid State Materials, M.Tech in Structure Engineering, M.Tech in Telecommunication Technology & Management, M.Tech in Textile Chemical Processing, M.Tech in Textile Engineering, M.Tech in Thermal Engineering, M.Tech in Transportation Engineering, M.Tech in VLSI Design Tools & Technology, M.Tech in Water Resources Engineering, M.S.(R) in Applied Mechanics, M.S.(R) in Biochemical Engineering and Biotechnology, M.S.(R) in Biological Sciences, M.S.(R) in Telecommunication Technology and Management, M.S.(R) in Civil Engineering, M.S.(R) in Chemical Engineering, M.S.(R) in Computer Science & Engineering, M.S.(R) in Electrical Engineering, M.S.(R) in Sensors, Instrumentation and Cyber-physical System Engineering, M.S.(R) in Automotive Research and Tribology, M.S.(R) in VLSI Design Tools and Technology, M.S.(R) in Mechanical Engineering, M.S.(R) in Materials Science and Engineering, M.S.(R) in Information Technology