

## CSIR-National Aerospace Laboratories, Bengaluru

CSIR-NAL is a unit under the Council of Scientific and Industrial Research (CSIR), an autonomous body under the Ministry of Science and Technology, Govt. of India. Applications are invited from qualified candidates (Indian nationals) who meet the necessary educational and work requirements for engagement of Project Staff to work in various projects at CSIR-NAL. The engagement is purely on temporary and contract basis. The engagement shall be for short period (i.e., 3 months, 6 months & 1 year) and co-terminus with the project. The extension of tenure of any project staff beyond the initial engagement will be subject to review by a Review Committee. The details of posts, qualification, experience, emoluments and age limit for engagement of Project Staff are as per CSIR guidelines is as under:

<b>Project Staff</b>	<b>Post Code</b>	<b>Qualification and desirable skills</b>	<b>No. of positions</b>
Project Assistant	101	Diploma in Mechanical/Electronics/ Electronics & Communication /Electrical & Electronics	05*
Project Associate-I	102	BE/B.Tech in Mechanical / Electronics & Communication Engg. / Electrical & Electronics / Aerospace / Aeronautical / Polymer Science / Automobile from a recognized University or equivalent.  M.Sc., in Physics / Chemistry / Material Science	18*
Project Associate-II	103	BE/B.Tech in Mechanical /Aerospace/ Aeronautical / ECE / Electronics / Controls / Electronic Instrumentation / Microwave / UAV / Technology / Automobile from a recognized University or equivalent <b>and</b> 2 years' experience	18*

\* No. of positions may vary as per the requirement of Projects.

CSIR-NAL will make a panel of waitlisted candidates to fill vacancies occurring in near future. Such panel will be valid for one year from date of notification of result, or until project completion, whichever is earlier.

### Monthly emoluments:

**1. Project Assistant:** ₹20,000/- + HRA

**2. Project Associate – I**

- (i) ₹31,000/- + HRA to scholars who are selected through (a) National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or (b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions
- (ii) ₹25,000/- +HRA for others who do not fall under (i) above

### 3. Project Associate - II

- (i) ₹35,000/- + HRA to scholars who are selected through (a) National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or (b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions
- (ii) ₹28,000/- +HRA for others who do not fall under (i) above

**Age Limit:** 50 years for Project Assistant and 35 years for Project Associate-I & II. The above age limits are relaxable for candidates of statutory groups as per CSIR/Govt. of India instructions on the subject.

#### **Job Requirements (Desirable Skills) common for the above posts:**

- Experience in the metallic and composite tooling work
- Composite Fabrication Knowledge Tooling for Composite Work
- Fabrication of sensor and characterization
- Evaluation of estimation codes for a high performance aircraft
- Electronic circuit hardware and software using Labview and Matlab, Signal Processing and Data Analysis
- Operation, Maintenance and calibration of Environmental Test Chambers
- VHDL coding, Internet of Things (IoT) & Electronics & Communication
- Knowledge of Autocad / CATIA & 2D drawing generation tools
- Experience in SOM based design of mechanical structures. Working experience in CATIA, Solidworks modelling and drafting tools
- One year or more experience in CAD Modelling & Drawing of Aerospace structural components
- Composite material testing and fabrication
- To deposit spin valve film using sputtering system
- Polymer characterization, testing, processing of polymer composites
- CFD Modelling and steady flow analysis over Combat/Civil Aircraft at various flow conditions
- Experience in carrying out Aeroelastic analysis in NASTRAN
- Experience in Signal processing, control simulation, Hardware and Software in loop studies, collision avoidance tools: Matlab and Simulink
- Handling Fiber optic sensors, installation on structures, setting up experiments, data acquisition during the tests
- Experience in Strength of Materials based design of mechanical structures. Working experience in CATIA modelling
- Fixture design/fabrication/ testing for mechanical testing (Static, dynamic, vibration of structures
- Min. 2 years' experience on CAD modelling and drawing of tools for Aircraft composite components
- Finite Element Analysis, Knowledge of Solid Mechanics and strength of materials
- To develop spin valve current sensor chip
- EM Characterization of stealth materials
- RCS simulation and Radar absorption analysis

- One year or more experience in CAD Modelling & Drawing of Aerospace structural components
- Radar Absorber Analysis
- 2D & 3D modelling, FEM analysis, Strong knowledge in Strength of Materials and Kinematics of Machinery
- Electromagnetic design, analysis and fabrication of planar/non-planar radar absorbing structures (RAS) for X-band applications
- Design and Simulation of Antennas
- To assist the Project Leader in various activities related to the project

***Preference will be given to those with experience as per the desirable skills and ability to work as a part of a team.***

**General Conditions:**

- (a) The engagement which is on contract basis in respect of all above positions will confer no rights on the candidates, whatsoever, implicitly and / or explicitly for their continuation beyond tenure /absorption/ regularization in CSIR. Engagement of Project Staff may be terminated at any time at a notice of one month from either side or one-month stipend in lieu thereof.
- (b) Project Staff would be governed by the CSIR Guidelines relating to engagement of project staff in CSIR Projects including NMITLI projects, OLP/MLP, Contract R&D and non-CSIR funded Projects issued by CSIR vide OM No. 4/CMG/2020-TMDII dated 13 August 2020.
- (c) Reservation (SC/ST/OBC/PWD) will be applicable as per CSIR/Govt. of India instructions on the subject.
- (d) Director, CSIR-NAL reserves the right to increase / decrease the number of positions and also cancel the recruitment process for the positions mentioned above at any stage of the recruitment process. The decision of the Director, CSIR-NAL will be final and binding on all.
- (e) Candidature will be purely provisional subject to fulfilling the eligibility criteria.
- (f) Canvassing in any form will render the candidate disqualified.

Candidates who fulfil the above criteria may apply online at **[www.nal.res.in](http://www.nal.res.in)**

Last date to submit online application: **24<sup>th</sup> November 2020**

For any query please contact

**☎ 080-25086078, Email: [recruitment@nal.res.in](mailto:recruitment@nal.res.in)**

For any technical problems while submitting the online application, please contact: **Smt. Kowsalya Devi M B, Senior Technical Officer, ☎080-25086038**