



## PRODUCT DEVELOPMENT AND INNOVATION CENTRE, BENGALURU

### Advertisement No. 05/CE/PDIC

### Recruitment of Professionals in the field of Control Electronics & Gimbal Design

Bharat Electronics Limited (BEL) a Navaratna Company and a premier Indian Public Limited Company in Professional Electronics with a portfolio of over 350 different products in the areas of Military Radars, Naval Systems, Electro-Optics, Weapon & Fire Control Communication, C4I Systems, Homeland Security, Telecom and Broadcast, Electronic Warfare, Tank Electronics and Electro Optics.

Electro-Optics is one of the focus areas in BEL for the development of products & sub-systems for its various programs. Towards this BEL invites applications from experienced & competent engineering professionals having a strong background in Control Electronics & Gimbal Design for its “Product Development & Innovation Centre” (PD&IC) at Bengaluru.

PD&IC is a centre of excellence at Company level for Product R&D. Futuristic technological products and solutions will be developed in niche technological areas, in various business segments of professional electronics, in the upcoming modern design facility with highest ever R&D investment in BEL.



**I QUALIFICATION & EXPERIENCE:**

Sl. No	Post / Post Code	Grade	Scale of Pay/CTC	No of Posts	Maximum age as on 01.10.2018	Educational Qualification	Minimum Experience as on 01.10.2018	Post Qualification Work experience
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
01	Dy. Manager Post code: E24-CE-MECH	E-IV grade	Rs.60000-3%-180000 CTC 15.3 Lakhs (approx.)	01	36 Years	Full time B.E/B.Tech in Mechanical with First Class for GEN / OBC candidates & Pass Class for SC/ST/PWD Candidates	8 years of relevant experience	Candidates should possess the below mentioned experience in addition to the basic mechanical product design : a) Mechanical Design of compact Gimbals b) Selection of appropriate motors c) Mechanical design of 3 axes rotating platforms d) Electro mechanical Actuators
02	Senior Engineer Post code: E23-CE-E&C-ELE	E-III grade	Rs.50000-3%-160000 CTC 12.7 Lakhs (approx.)	01	32 Years	<p>Full time B.E/B.Tech in Electronics / Electronics &amp; Telecommunication / Electronics &amp; Communication / Telecommunication / Communication/ with First Class for GEN / OBC candidates &amp; Pass Class for SC/ST/PWD Candidates.</p> <p>Full time B.E/B.Tech in Electrical with First Class for GEN / OBC candidates &amp; Pass Class for SC/ST/PWD Candidates.</p>	4 years of relevant experience	Candidates should possess the below mentioned experience in addition to the basic product design : a) Development of Algorithms and software for implementing Control loops (PDI) to stabilize the platform b) Practical Experience in the design of EO Gimbals. c) Thorough knowledge / in depth understanding of the operation of different types of Gyros (FOG/RLG/ MEMS Gyros), Accelerometers, Motors (Direct Drive / Geared) and other components of Gimbal d) Sensor Signal Processing e) Knowledge of communication protocols for interfacing with various components of gimbal system f) Hardware design of interface electronics for the control of Motors, reading the feedback from Resolvers / Encoders, Gyros, accelerometers etc. g) Hardware Design of Control Electronics h) Design experience in FPGA & DSP based Hardware i) Testing Methodology (using Rate table) for characterizing the stabilization performance of the gimbal.



## II ELIGIBILITY CRITERIA :

(a) **NATIONALITY** : A candidate must be a citizen of India.

(b) **i. AGE(as on 01.10.2018)** :

Sl. No	Post /Post Code	Grade	Upper age limit (as on 01.10.2018)
01	Dy. Manager, Post code: E24-CE-MECH	E-IV grade	36 Years
02	Senior Engineer, Post code: E23-CE-E&C-ELE	E-III grade	32 Years

ii. Relaxation of upper age limit :

Sl. No	Category	Age relaxation
1	Scheduled Caste / Scheduled Tribe	5 years
2	Other Backward Classes (Non-Creamy Layer)	3 years
3	Persons with Disability (PWD) having minimum 40% disability	10 years

iii. The upper age limit specified is applicable to General Category candidates.

iv. Candidates seeking age relaxation will be required to enclose copy of necessary certificate (s) along with application and submit in original at the time of interview and at any subsequent stage of the recruitment process for verification.

v. The Caste / Disability Certificate should be strictly in the format available on the BEL website failing which, candidates will be considered under 'General' category, provided they are otherwise meeting all other criteria stipulated for General Candidates.

vi. For Candidates belonging to Persons with Disability (PWD) category having minimum 40% disability will get 10 (ten) years relaxation in addition to the relaxation applicable to SC/ST/OBC mentioned above.

(c) **EDUCATIONAL QUALIFICATION** :

- All the Educational qualification mentioned in (I) *Qualification & Experience, column (7)* should be recognised by UGC /AICTE.
- The candidate must possess valid mark-sheet / Degree Certificate



- iii. In case there is no mention of specialization in the qualifying degree as required in the minimum essential educational qualification, candidates required to enclose a copy of certificate along with the application and submit in original along with photocopies at the time of interview from their University/Institute with a clear mention to their specialization in the qualifying degree.

**(d) EXPERIENCE :**

- i. Candidate should possess the requisite number of years and hands-on Post Qualification Experience (PQE) as mentioned at (I) *Qualification & Experience, column(8)& (9)*.
- ii. The cut of date for deciding the maximum permissible experience (Post Qualification Experience) shall be 01.10.2018. In order to compute post qualification work experience the period of work experience starting from the month immediately succeeding the month of final examination in which candidate acquire the essential qualification shall be considered.
- iii. Teaching experience or/and training acquired on Control Electronics and Gimbal Design will not be considered as relevant experience.
- iv. Candidates possessing Industrial experience only need to apply.
- v. Candidate should possess Experience certificates/Documents issued by the previous and present employer clearly indicating period of employment and post held.
- vi. Candidates are required to enclose a separate write up describing the relevant post qualification experience gained/held by them.

**III MODE OF SELECTION:** Selection will be through a Written Test followed by an Interview for only those candidates who qualify in the written test.

**IV PAY & ALLOWANCES:** In addition to Basic Pay, other allowances like Dearness allowance, House Rent Allowance, 35% of the Basic Pay as perquisites, Performance Related Pay (PRP), Group Insurance, Medical facilities, Provident Fund, Pension, Gratuity as per the Company's rules will be part of the remuneration package.

**V APPLICATION FEE :**

- i. Candidates belonging to GEN/OBC category are required to pay an application fee of Rs. 500/- (Rupees Five Hundred Only).
- ii. Application fee is non-refundable.
- iii. Candidates may go through all the instructions and eligibility criteria carefully before remitting the Application Fee.
- iv. An application fee of Rs.500/- needs to be remitted through

- Online mode i.e. SBI Collect OR
- SBI Branch

**Online mode i.e. SBI Collect:** Candidates are requested to read the details and screenshots for making the payment. Screenshots and instructions for the same are provided with the advertisement. Candidates may make the payment by clicking on the link provided below the web advertisement.



Candidates have to mention the “SBI Collect Reference Number” generated after making payment, in the Application Form. Payment receipt should be attached to the hard copy of the Application form along with other enclosures.

**SBI Branch:** Candidates can also make the payment by approaching SBI branch. You have to select SBI branch in the payment option and download the pre-printed challan generated through SBI Collect and deposit the application fee of Rs. 500/- plus applicable bank charges in any SBI Branch. The candidate should ensure to obtain the seal and signature of the bank official on the challan.

## VI HOW TO APPLY :

- (a) Candidates who meet the above requirement may apply in the format available on the BEL website : [www.bel-india.in](http://www.bel-india.in).
- (b) The post (with post code) applied for should be superscribed on the envelope.
- (c) Applications should be accompanied by the following documents (photocopies only):
  - i) A document as proof of date of birth.
  - ii) Semester wise marks cards of BE / B Tech. (Candidates who have completed bachelor’s degree after Diploma have to enclose all the semester marks sheets of diploma and diploma certificate)
  - iii) Final Degree Certificate/Grade card of BE / BTech
  - iv) Proof of Experience.
  - v) A separate write up mentioning the details of the post qualification experience.
  - vi) Caste / Disability certificate in case of SC / ST / PWD (if applicable, strictly in the prescribed formats, which are available on the BEL website : [www.bel-india.in](http://www.bel-india.in)). OBC certificate should be dated on or after 01.10.2017).
  - vii) Online Payment Receipt or Bank Challan (Original Depositor’s Copy) with signature of the bank authorities and bank seal (if applicable). *Photocopy of the bank challan will not be accepted.*
  - viii) No Objection Certificate from the present employer. *(Candidates working in PSUs/Government/Quasi Government organizations should submit the application through proper channel or produce No Objection Certificate at the time of the interview. Such candidates, who are unable to produce NOC at the time of interview, will not be interviewed and travelling expenses, if any, otherwise admissible will not be paid)*

## VII GENERAL INSTRUCTIONS:

- 1) Before applying for the post, the candidates should ensure that he/she fulfils the eligibility mentioned in the advertisement.
- 2) Outstation candidates called for interview shall be reimbursed Travelling allowance to and fro from their correspondence address/place of work in India on production of actual tickets by the shortest route.
  - (a) E-III grade : Sleeper Class,
  - (b) E-IV grade : AC II class.



- 3) Local Travel cost, if any, shall be borne by the candidates.
- 4) Request for change of category (GEN/SC/ST/OBC) once declared in the application will not be entertained.
- 5) Applications received after the last date for submission will not be considered.
- 6) In the event of any applicant has litigated with his/her employer in the past, the same should be clearly mentioned in brief.
- 7) Applications that are incomplete, not in the prescribed format, without the required enclosures, will be summarily rejected without assigning any reasons and no correspondence in this regard will be entertained.
- 8) The Caste / Disability Certificate should be strictly in the format available on the BEL website failing which, candidates will be considered under 'General' category, provided they are otherwise meeting all other criteria stipulated for General Candidates.
- 9) Candidates are required to possess one valid and active e-mail id, which is to be mentioned in the application form. Information pertaining to the written test / interview will be sent by e-mail to the email Id furnished by the candidate. In no circumstance candidate should share e-mail ID of any other person. BEL will not be responsible for bouncing of any e-mail sent to the candidates.
- 10) Not more than one application should be submitted by any candidate. In case of multiple applications, only latest valid (completed) application will be retained and the application fee paid for the other application will stand forfeited.
- 11) Decision of BEL in all matters regarding eligibility of the candidate, the stages at which such scrutiny of eligibility is to be undertaken, qualifications and other eligibility norms will be final and binding on the candidate.
- 12) A candidate's shortlisting for written test / interview and subsequent processes is strictly provisional. Mere fulfilling the minimum requirement of qualification and experience will not vest any right on the candidates to be called for the written Test/ interview.
- 13) BEL reserves the right to change (cancel / modify / add) any of the criteria, method of selection, number of posts; indicated above based on the actual requirement at the time of selection.
- 14) Canvassing in any form will result in disqualification. BEL reserves the right to debar / disqualify any candidate at any stage of the selection process for any reason whatsoever.
- 15) In case any dispute arises on account of interpretation of clauses in any version of this advertisement other than English, the English version available on BEL website shall prevail.
- 16) Any resulting dispute arising out of this advertisement including the recruitment process shall be subject to the sole jurisdiction of the Courts situated at Bengaluru.
- 17) All further announcements / details pertaining to this process will be published / provided on BEL website : [www.bel-india.in](http://www.bel-india.in) from time to time.

Applications complete in all respects, may be sent to **The Manager (HR/A&F), Bharat Electronics Limited, Jalahalli Post, Bengaluru – 560 013** **on or before 31.10.2018**