

PRODUCT DEVELOPMENT & INNOVATION CENTRE (PDIC)

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

Engineering Solutions & Crypto Solutions are 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 & outstanding professionals for its **"Product Development & Innovation Centre" (PDIC)** at Bengaluru.

Sl. No.	Job Code	Post / Grade	Relevant /Required Education Qualification & Discipline	No. of Post(s)	Upper age limit as on 01.05.2022	Relevant post-qualification Industrial experience as 01.05.2022	CTC / Pay scale	Reservation
1.	ES01	Senior Engineer/ E-III	M.E/ M.Tech (Mechatronics)	01	32 Years	Minimum 2 Years	14 Lakhs (approx.)/ 50,000 - 3% - 1,60,000	UR-01
2.	CS01	Deputy Engineer/ E-II	M.Tech (Computer Science/ Information Science/ Cyber Security) With Prior Degree of M.Sc (Mathematics)	02	28 Years	-	12 Lakhs (approx.)/ 40,000 - 3% - 1,40,000	UR - 01 SC - 01

*For job code CS01 - Two advance increments will be granted.

1.0 EDUCATIONAL QUALIFICATION:

- Senior Engineer:** Full time M.E/ M.Tech (Mechatronics) with **First Class** from an AICTE approved College/ Institute or a recognized University.
- Deputy Engineer:** Full time M.Tech (Computer Science/ Information Science/ Cyber Security) with Prior Degree of M.Sc (Mathematics). **First Class** for General candidates and **Pass Class** for SC candidates from an AICTE approved College/ Institute or a recognized University.

Please Note:

- Candidates with full time M.E/ M.Tech (Mechatronics) only need to apply.
- Candidates with full time M.Tech (Computer Science/ Information Science/ Cyber Security) with preceding qualification of M.Sc (Mathematics) only need to apply.
- Candidates whose discipline/ specialisation mentioned in their relevant Degree Certificates do not tally with the discipline/ specialisation prescribed in the advertisement or with the discipline/ specialisation mentioned in the application will not be considered for selections.
- In case of CGPA or credits system of assessments, the candidates are required to attach the formula for conversion of CGPA/ Credits to percentage in accordance with the respective University norms.**

RELEVANT POST-QUALIFICATION EXPERIENCE:

2.1 Senior Engineer (E-III): Minimum TWO YEARS relevant post-qualification Industrial experience in the following domains as on 01.05.2022.

The incumbent shall be responsible for engineering of Military grade & commercial platforms like Unmanned Ground Vehicle, Unmanned Air Vehicles, Unmanned Underwater vehicles & Automation Systems. Activities shall include System conceptualization, system engineering, selection of electronics modules (sensors, controllers, motors etc.) 3D part modelling, carrying out design verification (Thermal and Structural Analysis), building prototypes, integration, system tuning, controller programming, validating design and generating files for production.

Relevant Experience:

- a. Should have a flare for Product/system conceptualization from basic requirements. Knowledge of unmanned platforms & automation systems is a must.
- b. Hands on experience in Part and assembly modeling using 3D modeling software, generating 2D drawings, thermal and structural analysis, Reliability Engineering and knowledge of manufacturing processes.
- c. Hands on experience in Industrial Automation PLC, MATLAB, Simulink etc.
- d. Hands on experience in integration of electronics components/modules with mechanical systems.
- e. Hands on experience in selection of electronics components/modules (sensors like LIDAR, GYRO, Ultrasound, Cameras etc., motors, controllers, MEMS, Computers, embedded hardware etc.) for realization of platforms.
- f. Hands on experience in programming of controllers, On-board Computing platforms, tuning of systems to meet the operational specifications.
- g. Exposure towards Military Standards for electronic equipment.
- h. Relevant knowledge in product design to comply with Mil Standards related to environment and EMI, Reliability engineering and Design for Six Sigma would be an added advantage.

2.2 Deputy Engineer (E-II):

The Job involves design of algorithms, Simulation and verification of the design in high level language like C, Algorithm testing for randomness with NIST test suite, Design of new crypto primitives and substantiating with their mathematical strengths like Linear complexity, Cryptanalysis of algorithms, Documentation of the design for external evaluation.

Work Experience in the design of algorithms in cryptography, cryptanalysis and mathematical analysis of algorithms, experience in linear / matrix algebra and number theory etc. and computer programming languages coding in C, C++, Java, design and analysis of asymmetric key crypto algorithms will be an added advantage.

Please Note:

- a. Only relevant educational qualification and relevant post-qualification **Industrial experience** will be considered, as per the advertisement.
- b. Academy/ Teaching/ Apprenticeship Training/ Research work experience will not be considered as relevant post qualification/ industrial experience.
- c. The decision of the selection committee, with respect to relevance of experience and selection of candidates in specified grade of Senior Engineer (E-III) will be final. Work experience indicated without supporting documents, will not be considered.

2.0 UPPER AGE LIMIT & RELAXATION:

The upper age limit, as on 01.05.2022, is 32 years for the post of Sr. Engineer (E-III) & 28 years for the post of Deputy Engineer (E-II).

Candidates belongs to SC category will get age relaxation of 5 years for the post of Deputy Engineer (E-II). In case of Person with Benchmark Disability (PwBD) category having minimum 40% disability will get an age relaxation of 10 years in addition to respective category.

3.0 REMUNERATION:

- a. **Senior Engineer:** Pay scale Rs. 50,000-3%-1,60,000, 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 and Provident Fund as per the Company's rules will be part of the remuneration package.
- b. **Deputy Engineer:** Pay scale Rs. 40,000-3%-1,40,000, 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 and Provident Fund as per the Company's rules will be part of the remuneration package.

4.0 SELECTION PROCEDURE:

- a. Candidates have to carefully enter the details in the application and attach the documents as prescribed. In case, the details mentioned do not tally with supporting documents, the candidates application will be rejected without any prior intimation.
- b. Candidates meeting the eligibility criteria as stipulated in the advertisement will be called for **Written Test** (85 marks) for shortlisted candidates based on screening of the application and the documents submitted by the applicant.
- c. Based on the Written Test score, candidates will be shortlisted for interview in the order of merit in the ratio 1:5 category wise.
- d. The list of candidates shortlisted for the Written Test / Interview, will be posted on the BEL Website. Candidates are required to comply with the instructions indicated in the call letter.

5.0 METHOD OF SELECTION:

Selection will be through a Written Test for shortlisted candidates, followed by an Interview, only for those candidates who qualify in the Written Test. **The venue for the Written Test / Interview will be at Bengaluru.**

6.0 FEE PAYMENT:

- a) Candidates are required to remit an amount of Rs. 600/- plus 18% GST towards application fee through SBI Collect (through online mode or through SBI Branch).
- b) Candidates are requested to read the details and screenshots for making the payment.
- c) Candidates can also make the payment by approaching SBI branch. Candidates are required to select SBI branch in the payment option and download & print the challan generated through SBI Collect and deposit the application fee of Rs. 600/- plus 18% GST applicable bank charges in any SBI Branch. The candidate should ensure to obtain the seal and signature of the bank official.
- d) Candidates have to enter the “**SBI Collect Reference No.**” generated after payment, in the Application Form. SC/ PwBD candidates are exempted from payment of application fee.
- e) Candidate may go through all instructions and eligibility criteria carefully before remitting application fees and sending the application. **Fees once paid will not be refunded under any**

INSTRUCTION FOR MAKING PAYMENT:

- a. Go to www.onlinesbi.com and select :- State Bank Collect.
- b. Accept Terms and Conditions and click on “**Proceed**”.
- c. Select state of Corporation/ Institution :- All India.
- d. Select type of Corporation/ Institution :- PSU - Public Sector Undertaking and Click on “**Go**” option.
- e. Select PSU - Public Sector Undertaking :- Bharat Electronics Limited and Click on “**Submit**” button.
- f. Select Payment category :-
Senior Engineer (E-III) Post - “Recruitment of Senior Engineer (E-III) for PDIC”
Deputy Engineer (E-II) Post - “Recruitment of Deputy Engineer (E-II) for PDIC”
- g. Complete the payment as explained above
- h. Take a print of the payment receipt and attach it with the application form.

7.0 GENERAL INSTRUCTIONS:

- a) Internal candidates of BEL are not eligible to apply.
- b) The Cut-off date for deciding the maximum permissible age and experience (Post-Qualification Experience) shall be **01.05.2022**. 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 educational qualification shall be considered.
- c) Candidates working in PSUs/ Government/ Quasi Government organizations should compulsory 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 considered for interview.
- d) Candidates are required to travel extensively anywhere in India.
- e) Outstation Candidates called for interview shall be reimbursed Second (II) Class to and fro train fare by the shortest route (from their correspondence address) on production of receipt or other supporting documentary evidence in respect of the onward journey.
- f) Request for change of category once declared in the application will not be entertained.
- g) The exact date and time shall be communicated in the Admit Card for Written Test. Candidates are required to possess at least one valid e-mail id which is to be entered in the application form. Information pertaining to the Written Test/ Interview will be sent by e-mail to the id that is furnished and also will be published in the BEL Website. BEL will not be responsible for bouncing of any e-mail sent to the candidate.
- h) In the event any applicant has litigated with his/her employer in the past, the same should be clearly mentioned in brief.
- i) The Disability Certificate should be strictly in the format available on the BEL website.
- j) The number of posts indicated above may vary based on the actual requirement at the time of selection.
- k) Canvassing in any form will result in disqualification.
- l) Only Indian nationals need to apply.
- m) Merely fulfilling the minimum requirement of qualification and experience will not vest any right on the candidates to be called for the Interview/Written Test. BEL reserves the right to debar / disqualify any candidate at any stage of the selection process for any reason what so ever and also reserves the right to cancel / restrict / enlarge / modify or alter the recruitment or selection process, if need so arise without issuing any further notice or assigning any reason

- n) Interested candidates meeting all the criteria mentioned aloft, should submit the application in the format appended to this advertisement and send the applications through post, super-scribing on the envelope the post applied for. The following documents should compulsorily be enclosed:
- i. Self-attested copy of 10th Std/ SSLC Certificate (proof of DoB/ Age).
 - ii. Self-attested copy of PUC/ 12th Class/ Diploma Marks Card.
 - iii. Self-attested copies of Degree Marks cards for having passed all semesters/ years
 - iv. Self-attested copies of Provisional/ Final Degree Certificate.
 - v. Post qualification experience certificate(s) from previous to current employer in respect of Senior Engineer (E-III) post. The joining/appointment letter and relieving letter (wherever applicable) needs to be attached to determine the number of years of post-qualification experience. Where current employment certificate is not produced the joining/ appointment letter, first and latest pay slip and employee ID proof should be **compulsorily** attached to determine the number of years of experience. In case, candidate fail to enclose the supporting documents application will be summarily rejected without assigning any reason and no correspondence in this regard will be entertained.
 - vi. Category/ Disability certificate in case of candidates belonging to SC/ PwBD respectively. Candidates claiming reservation under any of the above categories are required to submit the certificate in the prescribed format.
 - vii. Candidates, if working in PSUs/ Govt. organizations/ Quasi Government Organisations should compulsorily submit 'No Objection Certificate' at the time of application or interview.
 - viii. SBI Fee Payment Receipt (if applicable).
 - ix. Write up of the roles and responsibilities/ experience.
- o) Failure to forward the indicated enclosures will result in disqualification, even if the candidates have remitted the application fee.
- p) Any revision, clarification, addendum, corrigendum, time extension etc. to the above advertisement will be hosted on the careers section of BEL website and no separate notification will be issued in the press. Candidates are advised to visit the website regularly to keep themselves updated.

Applications complete in all respects should be sent by post (sealed envelope-A4 size only) -
Super-scribed "**Application for the post of Senior Engineer (Job Code No.: _____)**"
Super-scribed "**Application for the post of Deputy Engineer (Job Code No.: _____)**"
and sent to below mentioned address:

**Manager (HR),
Product Development & Innovation Centre (PDIC),
Bharat Electronics Limited,
Prof. U R Rao Road, Near Nagaland Circle,
Jalahalli Post, Bengaluru - 560 013, India.**

The application should reach the given address on or before **14.06.2022 by 5.00 PM**, any applications received after the closing date will not be considered, applications that are incomplete, not in the prescribed format, not eligible, without the required enclosures will be summarily rejected without assigning reasons and no correspondence in this regard will be entertained.

There will be no separate communication to any candidates on their non-selection at any stage.

For clarification if any in respect of the above advertisement, you may write to hRPDIrec@bel.co.in or contact on 080-2219 5211.
