

**Web Advertisement for Empanelment of R&D Institutions / Consultants**

Bharat Electronics Limited is India's foremost Defence Electronics Company. A Navratna PSU under the Ministry of Defence, it has nine different units spread over the country and boasts 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. BEL is committed to keeping its portfolio of products technologically competitive and invests substantial resources in R&D for development of new products and technologies and continual upgradation of existing products. The R&D expenditure has doubled over the last four years and today stands at 8% of the revenues.

BEL has a three layered R&D structure. The Central D&E division at Bangalore develops common modules and sub-systems, while the D&E groups in the manufacturing plants do the product development. In addition, two Central Research Laboratories (CRL) at Bangalore and Ghaziabad are involved in futuristic R&D in the fields of Secure communication, Radar & Sensor signal processing, Next Generation Networks, Electro-Optics and technologies for EW and C4I systems.

BEL is looking to further augment its R&D and product design efforts particularly through collaborative R&D and for this it wishes to considerably enhance its ties with companies, institutions, academia and experts / consultants in different areas. BEL seeks Expression of Interest from Companies and R&D Institutions (comprising Academia, Research Institutes, R&D organizations and Companies working in niche technologies in India and abroad) and 'Experts / Consultants' working independently or associated with R&D Institutions and having requisite expertise for collaborative R&D / contract research / product and subsystem development programs in the area of Military Communication, Radars, Sonars, Electro Optics, RF & Microwave components and subsystems, MEMS and NEMS and Software (DDS Middleware, 3D Terrain Mapping, Mathematical modelling, etc.)

**A. Ways of Collaborative R&D to address the Disciplines / Areas mentioned above:**

The collaborative R&D could be in the form of joint R&D work on assignment basis / long term basis through MoUs / long term tie ups; technical consultancy for specific projects; design vetting; design verification; design buying; testing; characterization; specialized engineering software codes; modelling; expert guidance on annual retainer ship basis; etc.

**B. Terms and Conditions:**

1. Empanelment will be based on criteria such as
  - a. Qualifications, demonstrated experience, patents granted, papers published, awards received and number of projects completed in the relevant field, etc. for individual experts / consultants and
  - b. Type of institution, number of years of operation, present manpower expertise available, papers published, patents granted, number of projects / processes licensed and

commercialized, total number of projects completed in the relevant field, etc. for R&D institutions and Companies.

2. BEL could seek further information or details before empanelment.
3. BEL reserves the sole right for empanelment.
4. The Empanelment facilitates collaborative working for R&D Projects. Whenever a need for R&D work in a particular area / discipline will arise, BEL will contact the R&D institutions / Experts / Consultants / Companies who have expertise in that area.
5. A Non Disclosure Agreement (NDA), if required, will be signed with the expert / consultant / institution whenever needed.
6. Specific Agreement spelling out the details such as scope of work, time frame, remuneration, deliverables, ownership of IPRs etc., will be entered into with the expert / consultant / institution for each specific R&D project.
7. A Memorandum of Understanding (MoU) / Memorandum of Agreement (MoA) could be entered into with an R&D institution/ Company on long term basis, specifying areas that could also be long term contracts with pre-agreed terms and conditions.

Interested Companies, R&D Institutions / Individual Consultants are requested to download “Response Format for R&D Institution Empanelment” (A-1) / “Response Format for Individual Consultant Empanelment” (A-2) and submit the completed format, together with other required documents, by email or post, to:

GM (Technology Planning)  
Bharat Electronics Limited  
Registered & Corporate Office  
Outer Ring Road, Nagavara  
Bangalore – 560 045  
email: [cotp@bel.co.in](mailto:cotp@bel.co.in)

**Note:** Firms/Institutions/Individuals who have already been empaneled earlier against our previous advertisement need not apply.