



## V A C A N C I E S

National Engineering Research and Development Centre (NERDC) is the premier engineering research and development organization, operating under the purview of the Ministry of Education of the government of Sri Lanka. Over the last 5 decades, NERDC has embarked on challenging and nationally important engineering research & developments projects, professional industrial services, precision machinery services and standard laboratory services through its competent workforce and state-of-the-art facilities. NERDC is now planning to collaborate with industrial partners, forming business partnerships, achieving targets and delivering outputs by working round the clock. Thus, NERDC intends to recruit qualified, energetic, proactive and innovative Sri Lankan professionals for the following posts.

### **4. Principal Research Engineer (HM 1-3)**

- I. Mechanical/ Chemical/ Manufacturing/Production Engineering
- II. Civil Engineering
- III. Electronic/Electrical & Electronic/Electronic & Telecommunication Engineering

#### **4.1. External Candidates**

##### **(a) Basic Academic Qualifications**

A Bachelor's Degree in relevant engineering fields of 4 years' duration from a University recognized by the University Grants Commission (UGC) of Sri Lanka

OR

Associate Member of the Institute of Engineers, Sri Lanka

AND

##### **(b) Professional/ Additional Academic Qualifications**

Corporate Membership (Charter) of a Professional body recognized by the Institute of Engineers, Sri Lanka

OR

Postgraduate Degree in 'Master Level'

AND

##### **(c) Experience**

15 years' relevant experience after the first degree/ Associate Member of which 4 years should be in "Managerial Level" in a Corporation, Statutory Board/ Institution or a reputed private institution.

#### **4.2. Internal Candidates**

Having obtained the qualifications required by the external candidates above

OR

Minimum of four (04) years' experience should be at Senior Academic/ Research Category

#### **4.3. Job Description**

- Conducting and managing Engineering Research and Development Projects timely within the given budgetary provision
- Planning, designing and executing field experiments and trials
- Preparing comprehensive research proposals
- Assisting Research Fellows and Senior Research Fellows in their research works
- Supervising, monitoring and guiding research projects conducted by Research Engineers

- Engineering design and preparation of engineering drawings
- Attend to matters connected with patents
- Executing consultancy work on industrial problems
- Preparing progress reports
- Analysis and simulation of research results and preparation research reports
- Attending local & international seminars/workshops and conferences
- Preparation of Technology transfer packages and involve in technology transfer activities
- Participating technical evaluation committees and procurement committees
- Participating Research Planning Council
- Undertaking consultancies for local and foreign agencies and formulate feasibility reports
- Serving in local and international committees relevant to subject specialized
- Advising and guiding of Senior Research Engineers
- Coordinating with research teams and be an active team player
- Publications of research papers

#### **4.4.Areas of Expertise**

##### **I. Mechanical/Chemical/Manufacturing/Production Engineering**

###### **a. Mechanical Engineering Field**

###### **Selected candidate should**

- have strong leadership and managerial ability with experience a leading and mentoring a team of engineers
- have effective communication skills and ability to collaborate with cross-functional team
- provide track records of successful project management and leadership experiences
- have In-depth knowledge of mechanical engineering design, advanced manufacturing systems and analysis
- have proficiency in relevant software (CAE/CAM/CAD) and tools used in mechanical engineering applications
- be familiar with industry standards and regulations
- have strong analytical and problems solving skills to address complex engineering challenges
- have ability to bring innovative and creative solutions to engineering problems
- have proficiency in project management methodologies and tools

###### **b. Energy/Environmental Engineering Filed**

###### **Selected candidate should**

- have strong leadership and managerial ability with experience a leading and mentoring a team of engineers
- have effective communication skills and ability to collaborate with cross-functional team
- have track records of successful project management and leadership experiences
- have in-depth knowledge of design, implementation and evaluation of energy systems, waste management systems, pollution control systems, effluent treatment plants
- have proficiency in relevant software and tools used in energy and environmental applications undertake energy efficiency projects, green building design, building automation systems
- have capacity to design, implementation and evaluation of renewable energy project
- be able to bring innovative and creative solutions to industrial energy and environmental related issues
- lead, conduct and formulate environmental impact assessments, C- foot printing, energy bench marking etc.
- lead energy/environmental related high end Research and Development projects
- have ability to bring innovative and creative solutions to industrial issues related to energy and environmental problems

- have accreditation or any other regulatory body certification to conduct energy assessments, environmental assessments, laboratory management
- have proficiency in project management methodologies and tools

## **II. Civil Engineering**

### **Selected candidate should**

- have strong leadership and managerial ability with experience a leading and mentoring a team of engineers
- have effective communication skills and ability to collaborate with cross-functional team
- have track records of successful project management and leadership experiences
- have in-depth knowledge of civil engineering design, quantity surveying and structural analysis
- have proficiency in relevant software and tools used in civil engineering applications (PROCON, SAP, ETAB)
- be familiar with construction standards BS/EUROCODE) and guidelines (CIDA)
- have strong analytical and problems solving skills to address complex engineering challenges
- have ability to bring innovative and creative solutions to engineering problems
- have in-depth knowledge on Public Procurement/Contract Administration/Project Management
- have proficiency in project management methodologies and tools

## **III. Electronic/Electrical & Electronic/Electronic & Telecommunication Engineering**

### **Selected candidate should**

- have strong leadership and managerial ability with experience a leading and mentoring a team of engineers
- have effective communication skills and ability to collaborate with cross-functional team
- have track records of successful project management and leadership experiences
- have in-depth knowledge of electrical & electronic engineering design, electrical installation, power electronics, circuit design, IOT, embedded designs, motor controllers
- have proficiency in relevant software and tools (ALTIUM/SOLIDWORKS/ORCAD) used in electrical & electronic engineering applications
- have in-depth knowledge on national and international standards (SLS/IEC/IEEE) and regulations
- have strong analytical and problems solving skills to address complex engineering challenges
- have ability to bring innovative and creative solutions to engineering problems
- have proficiency in project management methodologies and tools

### **4.5. Age**

Should be not less than 35 years and not more than 55 years. (The upper age limit will not apply to the employees of the Government Corporations/ Boards/ Public Sector).

### **4.6. Salary Code and the Monthly Salary Scale - HM 1-3 ;2016; Rs. 86,865 - 15 x 2,270 - 120,915**

**Basic Salary** - Rs. 86,865/- + 15,000/- + 12,800/- + 5,000/-

(Basic salary + Government approved engineering allowance + Cost of Living allowance + Special allowance based on the government circular provisions)

### **4.7. Other Benefits**

- Centre contributes 15% of the salary to the Employees Provident Fund and employee should contribute 10%.
- Centre contributes 3% of the salary to the Employees Trust Fund.
- Reimbursement of medical bills as per the approved Medical Scheme of the NERD Centre.
- Transport allowance with fuel allowance within the provisions of applicable government circular
- Communication allowances (Residential/mobile phones)
- Disbursement of income generations through profitable projects/services

#### **4.8. Recruitment Procedure**

Applications are short listed, competitive written examination and a structured interview conducted by a panel appointed by the appointing authority.

##### **General Conditions**

Applicants should forward their signed application with copies of birth certificate, educational certificates, experience and service certificates and other relevant certificates, names, addresses and telephone numbers of two non-related referees under the registered post to reach the Director General Office, National Engineering Research and Development Centre, 2P/17B, Industrial Estate, Ekala, Jaela, on or before 25th February 2024. Applications (in pdf format) via e-mail (**careers@nerdc.lk**) will also be accepted and the received applications will be acknowledged.

The application should be sent using the **NERDC Specimen Application Form**. Applications which are not in accordance to the Specimen Application Form **will be rejected**.

Any application received after the closing date or does not confirmed to the above requirements will not be entertained.

Applications from officers in Government Departments/Corporations/Statutory Boards should be forwarded their applications through respective Heads of the institute. An advance copy may be sent directly.

The post applied should be marked on the top left hand corner of the envelope.

Any form of verbal or written canvassing is strictly prohibited and such an attempt shall be considered as a reason for disqualification.

**Closing date of applications is 25<sup>th</sup> February 2024.**

The National Engineering Research and Development Centre reserve the rights to decide on the number of candidates to be recruited.

##### **Director General**

**National Engineering Research and Development Centre,  
2P/17B, Industrial Estate, Ekala, Jaela  
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