

Appointment for Project Research Scientists and Technical Support Staff

Applications are invited for the following posts in the ICMR funded Research project entitled "Proof-of-Concept Development and Preclinical Validation of a Compact Sterile Automated Total Parenteral Nutrition (TPN) Compounding System for Neonatal Intensive Care Units".

1. Project Research Scientist-II (Medical) – 01 Post

Essential Qualification:

- MBBS with three years post qualification experience.
OR
- MBBS + Post Graduate Degree (MD) or any equivalent degree, including integrated PG degrees.
OR
- MBBS with PhD.

Desirable Qualification/Experience:

- MD/DNB in Pediatrics or /DM/fellowship in Neonatology or other relevant clinical specialty.
- Experience in neonatal intensive care, clinical research, medical device development/validation, or research involving nutrition/TPN would be desirable.
- Knowledge of research methodology, data collection, documentation and scientific reporting.

Maximum Age Limit: 40 years.

Consolidated Remuneration: ₹80,000/- + HRA, as admissible.

2. Project Research Scientist-II (Non-Medical)- Mechanical Engineering – 01 Post

Essential Qualification:

- For Engineering - Graduate degree of Four Years in Mechanical Engineering/ Mechatronics / Biomedical Engineering / Production Engineering or allied engineering field with three years post qualification experience with three years' post qualification experience.

Desirable Qualification/Experience:

- Experience in product development, medical device development, precision mechanical systems, fluid handling or laboratory automation.
- Hands-on experience in CAD/3D modelling, prototyping, enclosure design, pump mounting, tubing/manifold layout and mechanical integration.
- Knowledge of peristaltic pumps, load-cell integration, leak/occlusion testing, DFM/DFA and development/testing of functional prototypes.

- Experience in technical documentation, design verification, risk-based development and preparation of SOPs would be desirable.

Maximum Age Limit: 40 years.

Consolidated Remuneration: ₹67,000/- + HRA, as admissible.

3. Project Research Scientist-II (Non-Medical) - Electronics & Computer/Software- 01 Post

Essential Qualification:

- For Engineering /CS / IT - Graduate degree of Four Years in Electronics / ECE / Electrical / Instrumentation / Mechatronics// Computer Science / IT or allied engineering field with three years post qualification experience.

Desirable Qualification/Experience:

- Experience in embedded systems, microcontrollers, PCB development, sensor interfacing, motor/pump control, instrumentation or automation.
- Programming experience in C/C++ and/or Python, with ability to develop firmware, control logic, data acquisition, data logging and system diagnostics.
- Experience with load cells, ADCs, motor drivers, alarms/interlocks, touchscreen or application interfaces, databases or device-to-computer communication would be desirable.
- Experience in hardware-software integration, prototype testing/validation, technical documentation, version control and preparation of SOPs would be desirable.

Maximum Age Limit: 40 years.

Consolidated Remuneration: ₹67,000/- + HRA, as admissible.

4. Project Technical Support-I – 01 Post

Essential Qualification:

- 10th + Diploma / ITI or equivalent in Product / Industrial / Mechanical Design, CAD, Drafting or allied field + two years' experience in relevant subject / field.
OR
- Three years Graduate degree in a relevant Design / Mechanical / Product Development field + one year experience in relevant subject / field.

Desirable Qualification/Experience:

- Hands-on experience in CAD/3D modelling and preparation of product concepts, enclosures, fixtures, brackets and prototype parts.
- Experience with SolidWorks / Fusion 360 / Creo / similar CAD tools, 3D printing and rapid prototyping would be desirable.

- Understanding of product ergonomics, user interaction, control/display placement, cleaning-friendly design and medical/laboratory equipment form factor would be desirable.

Maximum Age Limit: 28 years.

Consolidated Remuneration: ₹18,000/- + HRA, as admissible.

General Conditions:

1. **Date/Time/Venue of Interview:** The exact date and time will be communicated to shortlisted candidates through email. The venue for interview will be Department of Neonatology, 4th Floor, PMSSY Building, SGPGIMS, Lucknow
2. All interested candidates should send their updated CV, cover letter mentioning Advt. No., and scanned copy of self-attested supporting documents (including experience certificates, academic documents, and photograph) through email at **kirtiv@sgpgi.ac.in** latest by in a single PDF file only.
3. The initial appointment will be for the first year of the grant, which may be extended subject to the satisfactory performance of the candidate till the duration of the project. Tenure of the position is coterminous with the project.
4. No TA/DA will be paid for attending the Interview.
5. Director reserves the right to cancel the Advt or selections without any reason thereof.

Principal Investigator: Dr. Kirti Naranje, Professor, Dept. of Neonatology

Advt. No.:.....

Sanjay Gandhi Postgraduate Institute of Medical Sciences

Raebareli Road, Lucknow-226014, India.

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