

## Department of Electronics and Communication Engineering

### Advertisement for Junior Research Fellow

Applications with complete bio-data are invited for a temporary post of two Junior Research Fellows (JRF) to work under the project funded by the Indian Council for Medical Research (ICMR), Government of India. As a part of this role, the JRF will carry out cutting-edge research in designing, developing and validating digital bite force measurement devices for dental applications. The work is carried out in collaboration with A. B. Shetty Memorial Institute of Dental Science, Nitte (Deemed to be University), Mangaluru and will include the design, analysis, fabrication and testing of the developed device. The JRF is expected to carry out high-impact research and publish and present results in top conferences/workshops and journals in the area. Details follow.

**Project title and Reference No:** Design, Development and Validation of Digital Bite Force Measurement Device for Dental Applications (Ref. No: ID No. 2021-10219, 16-11-2022).

**Number of Posts:** 02

| Sl. No. | Name of the Post             | No. of Post | Duration   | Fellowship amount                     |
|---------|------------------------------|-------------|------------|---------------------------------------|
| 1.      | Junior Research Fellow (JRF) | 01          | 03 Years** | Rs.36,580/- per month (including HRA) |
| 2.      | Junior Research Fellow (JRF) | 01          | 01 Year##  | Rs.36,580/- per month (including HRA) |

\*\* The selected candidate will be appointed initially for one year (on contract), and the services will be extended for next year based on the performance review and are co-terminus with the project. The candidate is encouraged to apply for PhD at Nitte (Deemed to be University), Mangaluru. The candidate, if selected, needs to sign a bond for three years. The appointment is purely temporary and will terminate automatically without any notice or compensation on termination of the research project.

## The selected candidate will temporarily be appointed for only one year and will terminate automatically without any notice or compensation. If selected, the candidate must sign a bond for one year.

**Note:**

- The funding agency and host institution will govern the applicant's appointment.

**Essential Qualifications:**

M.E/M.Tech/MS in Electrical/Electronics/Telecommunication/Medical Electronics with a focus in Embedded Systems - minimum 60% aggregate percentage or 6.0/10 CGPA. The candidate must have qualified for the GATE examination (an old GATE score is also considered).

**Age Limit:** 28 years (Preferable)

**Desired Skills:**

- Sound knowledge in the area of embedded systems.
- Programming skills in Microcontrollers, Arduino and Raspberry Pi.
- Knowledge of fabrication-related work using sensors and controllers.
- Previous work experience in related projects.
- Ability to work in a team, good communication skills and experience in experimental research for setup fabrication.

**How to apply**

You are required to fill-up the complete details through a google form link:

<https://forms.gle/Px1coxWEkHR6JdMB7> on or before 10<sup>th</sup> December 2022 (Saturday).

- ◆ Written Test/Interview (to be held at NMAMIT, Nitte) details will only be emailed to suitable candidates.
- ◆ TA/DA will not be paid for attending the interview.
- ◆ The position is available immediately.

**Details of the Principal and Co-Principal Investigator:**

| Sl. No. | Name of the Faculty | Address  | Role                   |
|---------|---------------------|--|------------------------|
| 1       | Dr. M. S. Ravi      | Head of the Department,<br>Department of Orthodontics,<br>A.B. Shetty Memorial Institute of<br>Dental Sciences, Nitte Deemed to be<br>University,<br>Medical Sciences Complex, Deralakatte,<br>Mangaluru – 575018, Karnataka, India<br>E-Mail: drmsravi@nitte.edu.in | Principal Investigator |

|   |                      |  |                              |
|---|----------------------|--|------------------------------|
| 2 | Dr. Durga Prasad     | Associate Professor<br>Department of Electronics and<br>Communication Engineering,<br>NMAM Institute of Technology, Nitte,<br>Udupi<br>E-Mail: <a href="mailto:durgaprasad@nitte.edu.in">durgaprasad@nitte.edu.in</a>  | Co-Principal<br>Investigator |
| 3 | Dr. Murali P. S.     | Department of Orthodontics,<br>A.B. Shetty Memorial Institute of<br>Dental Sciences, Nitte Deemed to be<br>University,<br>Medical Sciences Complex, Deralakatte,<br>Mangaluru – 575018, Karnataka, India<br>E-Mail: <a href="mailto:drmuralips@nitte.edu.in">drmuralips@nitte.edu.in</a> | Co-Principal<br>Investigator |
| 4 | Dr. Bommegowda K. B. | Assistant Professor,<br>Department of Electronics and<br>Communication Engineering,<br>NMAM Institute of Technology, Nitte,<br>Udupi<br>E-Mail: <a href="mailto:bgowda_kbl@nitte.edu.in">bgowda_kbl@nitte.edu.in</a><br>Mobile: +91-9538030875   | Co-Principal<br>Investigator |
| 5 | Mr. Pradyumna G. R.  | Assistant Professor,<br>Department of Electronics and<br>Communication Engineering,<br>NMAM Institute of Technology, Nitte,<br>Udupi<br>E-Mail: <a href="mailto:pradyumna@nitte.edu.in">pradyumna@nitte.edu.in</a>   | Co-Principal<br>Investigator |