



UNIVERSITY OF CALICUT

(PVC-Office)

No: 124593/PA TO PVC/2023/Admn

Dated, Calicut University P.O 08.06.2023

## NOTIFICATION

UNIVERSITY OF CALICUT

TRANSLATIONAL RESEARCH CENTRE

**Chief Minister's Nava Kerala Post Doctoral Fellowships (Mode I)**

- Ref: 1. GO (Rt) No.544/2023/HEDN dated 13. 04. 2023.  
2. GO (MS) No. 594/2022/HEDN dated 03. 12. 2022.  
3. No. KSHEC-A3/344/Govt. Kerala- NKPDF/727/2023 dared 30. 03. 2023.

Applications are invited from eligible candidates for the following Chief Minister's Nava Kerala Post Doctoral Fellowship (Mode I) positions sanctioned to specific translational research projects under the Translational Research Centre, University of Calicut.

### 1. Name of Post: NKPDF – CU01

**Title of the approved research:** Development of less-defective graphene-based super capacitor devices for energy storage

**Qualifications:**

- i. **Essential:** PhD in Chemistry/Material Science/Nanoscience/Nanotechnology
- ii. **Desirable:** Minimum two research publications

### 2. Name of Post: NKPDF – CU02

**Title of the approved research:** Scalable synthesis of nanoscale metal sulfide electrocatalysts

**Qualifications:**

- i. **Essential:** PhD in Physics/Chemistry/Materials Science & Engineering/Chemical Engineering
- ii. **Desirable:** a) Experience in electrochemistry, electrocatalysts fabrication and characterisation and electroanalytical techniques  
b) Experience in electrocatalytic reduction of CO<sub>2</sub> and electrocatalytic generation of H<sub>2</sub>

### 3. Name of Post: NKPDF – CU03

**Title of the approved research:** Developing microcontroller-based devices for biosensing, farming and community water supply systems

**Qualifications:**

- i. **Essential:** PhD in Physics/ Experimental Physics/ Electronics Engineering/ Electronics & Communication Engineering
- ii. **Desirable:** a) Expertise in developing microcontroller or embedded system-based projects  
  
b) Experience in Computer programming in Python/Embedded C.

#### 4. Name of Post: NKPDF – CU04

**Title of the approved research:** Affordable phthalate quantification sensor as pollutant action device

**Qualifications:**

- i. **Essential:** PhD in Physics/Chemistry/Nanotechnology
- ii. **Desirable:** a) Commendable experience in electrochemical sensing and connected types of equipment  
  
b) First-hand experience in nanotechnology-based device fabrication

#### 5. Name of Post: NKPDF – CU05

**Title of the approved research:** Biostimulant formulation for biofortification, stress tolerance and yield enhancement of rice

**Qualifications:**

- i. **Essential:** PhD in Botany/Agriculture/Biotechnology/Molecular Biology
- ii. **Desirable:** a) Minimum two years of post-PhD experience in plant molecular biology  
  
b) Exposure to field trial experiments in crop plants and bioinformatics studies

#### 6. Name of Post: NKPDF – CU06

**Title of the approved research:** Development of cake yeast with probiotic, antiviral and immunostimulatory properties

**Qualifications:**

- i. **Essential:** PhD in Microbiology/Biotechnology/Molecular Biology/Zoology
- ii. **Desirable:** a) Minimum two years of research experience in microbiology/ molecular biology/ biotechnology area  
  
b) Proven research experience in biochemical and molecular analyses related to yeasts

#### **General**

1. Scholars of Kerala origin and possessing PhD degree can apply.
2. Other general eligibility conditions, mode of selection, duration and value of fellowships and all other provisions are as applicable in Chief Minister's Nava Kerala Post Doctoral Fellowships (Mode II), Government of Kerala, referred 2 and 3 (link: <https://www.kshec.kerala.gov.in/index.php/activities/ongoing/chief-minister-s-nava-kerala-post-doctoral-fellowships>)
3. The upper age limit is 45 years as on the last date of application, with relaxation of five years for women and candidate from other eligible categories (SC/ST/OBC/Physically challenged)

**How to apply:**

Eligible candidates can send their application to the **Pro Vice Chancellor, University of Calicut, Calicut University PO, Malappuram 673635 on or before 26.06.2023.**

Application to be submitted by the candidate must include the following:

- a. Name of the Post applied for:
- b. Title of the Research project:
- c. Name of Applicant:
- d. Age and Date of Birth:
- e. Place of Birth:
- f. Category: General/SC/ST/OBC/Physically challenged
- g. Contact details: Complete postal address, email address, phone number
- h. Details of PhD: Title of thesis, Date of award, University/Institution, Supervisor
- i. Details of publications/patents:
- j. Details of post PhD research experience, if any:
- k. Self-appraisal of the candidate for performing post doctoral research work in the area applied for (*Maximum 250 words*)
- l. Dated signature of the applicant:

Applications must carry self-attested copies of certificates to prove date of birth, place of birth, category (for age relaxation only), PhD degree, patents, and other relevant experiences/ awards/ honours/ projects undertaken/ achievements, if any to be considered. Copies of the publications (only those relevant to the proposed research area) also need to be enclosed.

Dr.M. Nasser  
Pro-Vice-Chancellor

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