# INSTITUTION OF EMINENCE CALL FOR APPLICATIONS FOR POST-DOCTORAL RESEARCH FELLOWSHIP IN SCHOOL OF ENGINEERING SCIENCES AND TECHNOLOGY

**(3 Backlog Positions)**

Under the directorate of Institution of Eminence funded Post-Doctoral Fellowship scheme (IoE-PDRF), young researchers are invited from across the country and abroad to engage in creative, high-quality work in their discipline/area of interest. The fellow will work under a faculty-mentor from the School of Engineering Sciences and Technology, University of Hyderabad. In addition to research, a fellow may be assigned teaching responsibilities, depending on their interest, to support and complement ongoing or initiate new programs in the respective academic unit as per the mandate of the IoE.

***Essential Qualifications: PhD in one of the disciplines mentioned in the table below, corresponding to the topic of PDRF.***

***Desirable Qualifications: 3 published papers in refereed international journals (SCOPUS/WOS indexed). Out of three, a minimum of two publications as first author in journals with an impact factor not less than 2.***

The final selection will be based on an online/in-person interview of short-listed candidates. The candidates shall attend the in-person interviews at their own expense.

**Total vacancies: 03 (SC-1, ST-1, UR-1)**

It may be noted that merely satisfying the minimum eligibility conditions does not guarantee short-listing or selection. The University reserves the right to fill as many vacancies as it decides (i.e., not all vacancies may be filled).

| Sl. No. | Name of the Faculty Name & e-mail id | Research Topic | Background |
|---|---|---|---|
| 1 | Dibakar Das | Functional Ceramics including piezoelectric, magnetic, microwave and nanoceramics for biological applications. | Ph.D. in one of the following Engineering/Technology disciplines; Materials, Metallurgical, Nanoscience and Technology, Ceramic, or in one of the following Science disciplines; Materials, Nanoscience and Technology, Physics and Chemistry |

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|---|---|---|---|
| 2 | Jai Prakash Gautam | Process texture, microstructure - property correlation in automotive, electrical steels and super alloys. | Ph.D. in one of the following Engineering/Technology disciplines; Mechanical, Materials, Metallurgical, Nano, Ceramic, Chemical, Industrial, Production, Manufacturing or in one of the following Science disciplines; Materials, Nano, Physics and Chemistry |
| 5 | Raj Kishora Dash | Development of advanced materials by incorporating nanomaterials for future applications | Ph.D. in one of the following Engineering/Technology disciplines; Mechanical, Materials, Nanotechnology, or in one of the following Science disciplines; Materials, Nanoscience, Physics (Solidstate physics) |
| 6 | Swati Gosh Acharya | 1. Structural integrity of aircraft materials<br>2. Nanocomposite based filters for decontamination of water | PhD in Materials Science/Materials Engineering/physics/chemistry |
| 7 | Venkata Girish Kotnur | Max phase coatings by PVD | Ph.D. in one of the following Engineering/Technology disciplines; Mechanical, Materials, Metallurgical, Nano or in one of the following Science disciplines; Materials, Nano, Physics and Chemistry |
| 8 | K. Guruvidyathri, | 1. Design, synthesis and characterization of high-entropy alloys<br>2. DFT and Calphad studies on oxides | Ph.D. in one of the following Engineering/Technology disciplines; Mechanical, Materials, Metallurgical, Nano, Ceramic, Chemical, Industrial, Production, Manufacturing or in one of the following Science disciplines; Materials, Nano, Physics and Chemistry |
| 9 | G. Appa Rao | Processing and Establishment of Structure Property Correlations in Advanced Powder Metallurgy Materials for Aerospace Applications | Ph.D. in one of the following Engineering/Technology disciplines; Mechanical, Materials, Metallurgical, and Ceramic, Chemical, Industrial, Production, Manufacturing or in one of the following Science disciplines; Materials, Nano, Physics and Chemistry |

**Shortlisting of candidates would be based on:**

1. Research record of the number of publications, the journal's impact factor, citations of the article, and the patents and books/book chapters.
2. The institution from which the degree is awarded. Center/institute of national importance or institute in the top 200 ranks worldwide will receive added weightage.

To know about the school more, visit: https://enggtechnology.uohyd.ac.in/

**ELIGIBILITY AND OTHER CONDITIONS**

1. Candidates from UGC-recognized (public or private) institutions or institutions of national importance or from international institutions (NRI/PIO/ Foreign nationals) with the degree awarded not more than three years before the announcement date of this call for applications. In the case of Indian nationals, a relaxation of two years will be provided to candidates belonging to OBC/EWS/SC/ST/Women/PwD categories, i.e., the PhD should have been awarded not more than Five years from the date of announcement of this call for applications.

2. Candidates from UGC-recognized (public or private) institutions or institutions of national importance or international institutions who have submitted their PhD thesis and are awaiting the degree award are eligible to apply upon submission of Provisional Certificate.
3. A candidate is allowed to choose more than one Mentor from the list given below and give an order of preference among the suitable topics.
4. There is no guarantee that the first preference will be chosen area of research, in that case the candidate should be willing to work in the other preference as mentioned in the application.
5. Applicants already in regular service are not eligible to apply.
6. Faculty members are NOT permitted to host/mentor students they have supervised or co-supervised for PhD as IOE-Post Doctoral Fellows.
7. The upper age limit for the fellowship is 32 years (at the time of the submission of the application), and age relaxation of up to 3 (three) years will be given to candidates belonging to SC/ST/ OBC (Non-Creamy Layer)/Women/PWD/EWS candidates.
8. The IOE-PDRF is a purely temporary assignment from the date of appointment.
9. Extension beyond the tenure will be subject to the availability of funds and performance review. There will be a rigorous assessment of yearly progress for the renewal of the fellowship, and is NOT automatic.
10. Notwithstanding any of the conditions mentioned above, the tenure of all appointments will be co-terminus with the tenure of the IOE program at the University of Hyderabad (which is currently 31/3/2025).

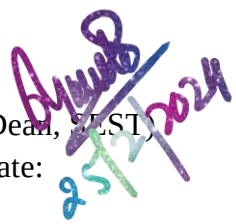
FELLOWSHIP: Rs. 55,000/- per month (consolidated) and Rs. 35,000 per month for candidates who have submitted the thesis and are awaiting the degree award.

RESEARCH GRANT: Rs. 1,00,000/ - per annum. The grant can be used for consumables, contingencies, and domestic travel - for attending conferences/research meetings/symposia). Purchase of items such as minor equipment, laptops, tablets, furniture, or any other form of the asset are NOT permitted.

The IOE-PDRFs are not eligible to receive any other fellowship from any Government or non-Governmental source during the tenure of the fellowship. If availing of any other fellowship/ remuneration, he/she must resign before accepting the IOE-PDRF at UoH.

**Deadline for applications: 15/03/2024.**

The government of India's rules on reservation policy will be strictly followed in selections. The University reserves the right to reject all or any of the applications or cancel the call for applications without assigning any reason thereof.



(Dean, SLST)
Date:

**IOE - PDRF APPLICATION FORM**

**School of Engineering Sciences and Technology**

Please fill out the application form along with all required documents and submit it by email to: **appl_sest@uohyd.ac.in**, with the subject line IoE PDRF-2023. The filled-in application form, along with annexures, shall be converted into a single pdf file and sent by email to the contact email id.

| **APPLICANTS PERSONAL DETAILS** | |
|---|---|
| NAME | |
| GENDER | |
| DATE OF BIRTH AND AGE | |
| NATIONALITY / SOCIAL STATUS / CATEGORY | |
| PERMANENT ADDRESS | |
| ADDRESS FOR CORRESPONDENCE | |

| APPLICANTS PROFESSIONAL DETAILS | |
|---|---|
| DETAILS OF QUALIFICATIONS (IN REVERSE CHRONOLOGY). INCLUDE NAME OF THE DEGREE, YEAR OF PASSING, CLASS/DIVISION OBTAINED AND NAME OF THE UNIVERSITY. | **COPIES OF CERTIFICATES ARE TO BE ATTACHED AS ANNEXURE** |
| SUMMARY OF PHD WORK (SYNOPSIS OF THESIS) | **ATTACH AS ANNEXURE** |
| AREA OF SPECIALIZATIONS | |
| DETAILED CV WITH PREVIOUS POST DOCTORAL EXPERIENCE, IF ANY, LIST OF PUBLICATIONS, PATENTS, BOOKS/CHAPTERS, IF ANY AND NAMES OF THREE REFEREES | **ATTACH AS ANNEXURE** (MENTION IMPACT FACTOR AND CITATIONS AS ON THE DATE OF THIS ADVERTISEMNT) (ENCLOSE A MAXIMUM OF SELECTED 3 REPRINTS) |
| SUMMARY OF THE RESEARCH EXPERIENCE AND SKILL SETS | **ATTACH AS ANNEXURE** |
| **APPLICANTS PROPOSED RESEARCH ACTIVITY** | |
| DETAILS OF RESEARCH PROPOSAL WITH CLEAR OBJECTIVES, DELIVERABLES & MILESTONES ETC. | **ATTACH AS ANNEXURE** (FORMAT GIVEN IN THE ADVERTISMENT) |
| NAME AND AFFILIATION OF THE FACULTY MEMBER WHO HAS AGREED TO MENTOR THE APPLICANT | **ATTACH ENDORSEMENT LETTER FROM THE MENTOR** |

I STATE THAT THE APPLICATION IS COMPLETE IN ALL RESPECTS AND THAT ALL INFORMATION IS CORRECT. I UNDERSTAND THAT IF ANY OF THE INFORMATION PROVIDED IS FOUND TO BE FALSE, THE FELLOWSHIP WILL BE TERMINATED IMMEDIATELY, AND THE APPLICANT WILL BE LIABLE TO REFUND THE FELLOWSHIP RECEIVED.

**Name and signature of the applicant:** **Place, date**

**Project Proposal format:**
**(Maximum 10 pages with font Times New Roman, Size 12, Line spacing 1.15)**

a) Title of the Research Proposal
b) Name and Affiliation of Faculty mentor (if endorsement received)
c) Abstract (maximum 300 words).
d) Introduction
e) Origin of proposal
f) National and International status
g) Hypothesis/ Detailed Methodology
h) Expected outcome such as new inventions/discoveries, publishing quality papers/articles, book/book chapters, and others (200 words).
i) Previous Research experience highlighting achievements, if any.