



ಸಿವಿಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ/ಸಿವಿಲ ಅಭಿಯಾನ್ರಿಕಿ ವಿಭಾಗ

ರಾಷ್ಟ್ರೀಯ ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆ ಕರ್ನಾಟಕ, ಸುರತ್ಕಲ್/ ರಾಷ್ಟ್ರೀಯ ಪ್ರೌಢೋಗಿಕಿ ಸಂಸ್ಥಾನ ಕರ್ನಾಟಕ, ಸುರತ್ಕಲ್
ಶ್ರೀನಿವಾಸನಗರ ಪೋಸ್ಟ್, ಮಂಗಳೂರು-೫೭೫೦೨೫, ಕರ್ನಾಟಕ, ಭಾರತ/ಶ್ರೀನಿವಾಸನಗರ, ಮಂಗಳೂರು-೫೭೫೦೨೫, ಕರ್ನಾಟಕ, ಭಾರತ

DEPARTMENT OF CIVIL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

POST SRINIVASNAGAR, MANGALURU-575 025, KARNATAKA, INDIA

Ref. No: NITK/CED/1507

Date:07-08-2026

Advertisement for Junior Research Fellow (JRF)

Applications are invited from the interested candidates for the post of Junior Research Fellow (JRF) to work under ANRF-ARG project titled “**Earthquake Resilient Novel Reinforced Foundation Techniques for XL Offshore Wind Turbines: Experimental and Numerical Investigations**” funded by Anusandhan National Research Foundation (ANRF) under Advanced Research Grant (ARG) Program. The duration of the project is 03 years. *Last date for receipt of the application is extended to 25 August 2026.*

SN	Position	Area of Specialisation	Duration	Consolidated Emoluments per month	Number of Positions
1	Junior Research Fellow (JRF)	Geotechnical/Ocean/Civil Engineering	One (01) Year (Can be extended till the end/termination of the project)	Rs. 37,000/- and HRA	One (01)

Brief Description of the R&D Project:

Project Title	Earthquake Resilient Novel Reinforced Foundation Techniques for XL Offshore Wind Turbines: Experimental and Numerical Investigations
Funding Agency	Anusandhan National Research Foundation (ANRF), India
Duration	03 Years (2026-2029)
Principal Investigator (PI)	Dr. Babloo Chaudhary, Deptment of Civil Engineering, NITK Surathkal
Co-Principal Investigator (Co-PI)	Dr. D. Karmakar, Department of Water Resources and Ocean Engineering, NITK Surathkal
Details of the Project	Offshore wind energy is one of the fastest growing renewable energies. As the world is moving towards net zero emission, renewable energy sources are gaining popularity. But the Levelized Cost of Energy (LCOE) is higher compared to the conventional energy sources (e.g. coal). Foundations cost of the Offshore Wind Turbine (OWT) is about 30 to 40% of the total cost. With advancements of technology, offshore wind energy industry is leading towards high capacity (more than 15 MW capacity of each turbine). For high-capacity turbine, very large diameter monopile is required which may not be suitable due to fabrication complexity, installation challenges and other issues. Therefore, it is an



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	urgent need to develop a foundation for such high-capacity next generation OWTs. The novel foundations are developed which can be used for next generation higher capacity (15-20MW) XL OWTs. As a single XL turbine can generate more energy with the cost of only one foundation hence it can help to reduce LCOE. If the OWTs come under seismic zone then their foundations should be earthquake resilient. Therefore, the novel foundations are developed in such a way that they can mitigate the earthquake-induced damage of the OWTs. In addition, soil liquefaction and scour are also in the scope of the study. In the present project a series of physical model tests (e.g. cyclic lading tests, shake table tests) and numerical simulations will be done on the scaled model of Extra-large OWT monopile (15-20MW) in order to understand the exact behavior of monopile. Later, a number of tests will be conducted to examine the effectiveness of the novel foundations by comparing their performance with that of conventional monopile. Numerical simulations will be also carried out by using the software PLAXIS-3D/FLAC-3D to make clear the mechanism. <i>The study is multidisciplinary in nature, where Geotechnical Engineering and Coastal Engineering (hydrodynamic performance) are involved.</i>
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Information for the Position of JRF:

Essential Qualifications	(i) B.E/B.Tech. (Civil Engg) and M.E/M.Tech. in Geotechnical Engg/Ocean Engg/Marine Structures or a suitable specialisation. Candidates must have at least 60% (CGPA 6.5/10) marks in aggregate from a recognized technical institute or university. (ii) GATE qualified candidate (at least once in his/her academic career) is preferable but not mandatory.
Preferable Experience/quality	Candidate should be able to work independently and flexibly. The following criterions are preferable for the post. (i) Experience of conducting lab tests or physical model tests. (ii) Ability to carry out numerical simulation by using PLAXIS/FLAC. (iii) Good communication and writing skills for technical report/article.
Age Limit	35 Years (preferable), Age relaxation as per GOI rule.
Duration	Initially for 01 year (Can be extended till termination/end of the project.)
Consolidated Emoluments	Rs 37000/- per month for first 02 years as JRF, and Rs 42000/- per month for the third year as SRF. HRA as per applicable.
Last date	Last date for receipt of the application is 25 August 2026



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Application Process:

Interested candidates may apply in the prescribed format along with resume, photo copies of relevant certificates, grade/mark sheets, publications etc. They need to send the below mentioned documents to the correspondence address.

- (i) Duly filled application form in the prescribed format with recent passport-size photograph.
- (ii) Covering letter
- (iii) Resume
- (iv) Xerox copies of the educational certificates and mark sheets (class X onwards)
- (v) Xerox copy of GATE score card
- (vi) Proof for research experience, publications, special achievements and patents, if any.

*In addition, scanned copy of all the documents along with duly filled application form in the prescribed format must be sent as a single PDF file to the email id: babloo@nitk.edu.in. The hard copies of all the mentioned documents along with duly filled application form should be sent on or before **25 August 2026** to the address given below.*

Correspondence Address:

Dr. Babloo Chaudhary

Department of Civil Engineering,

National Institute of Technology Karnataka (NITK), Surathkal,

P.O. Srinivasnagar, Mangalore – 575 025. Karnataka, India, Mobile: 8724041225,

Office Phone: 0824-2473638/2473600 (O), E-mail ID: babloo@nitk.edu.in

Additional Information:

1. The JRF will be encouraged to apply for admission to the PhD program at NITK Surathkal by fulfilling the admission criteria of the institute.
 2. **The shortlisted candidates will be informed by email/phone; and will be called for a written test and/or interview.**
 3. Selected candidates will be required to join immediately or as soon as possible.
 4. Selection will be based on qualification, interview and relevant experience.
 5. Candidates before appearing for the test/interview shall ensure that they are eligible for the position, they intend to apply. Please note that no TA/DA/any other allowance(s) will be provided for attending the test/interview.
 6. If selected, the candidate who is already employed, should produce relieving certificate from their employers at the time of joining.
 7. The appointment will be on a purely temporary basis co-terminus before or with the project. The selection committee decision will be final. The duration of the post is one year initially, but it can be extended up to the end/termination of the project, subject to performance of the candidate and other factors.
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ಶ್ರೀನಿವಾಸನಗರ ಪೊಸ್ಟ್, ಮಂಗಳೂರು-೫೭೫೦೨೫, ಕರ್ನಾಟಕ, ಭಾರತ/ಶ್ರೀನಿವಾಸನಗರ, ಮಂಗಳೂರು-೫೭೫೦೨೫, ಕರ್ನಾಟಕ, ಭಾರತ

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8. Merely fulfilling the eligibility requirement does not guarantee shortlisting for interview; additional criteria may be imposed for shortlisting. NITK Surathkal reserves the right to reject any or all the application without assigning any reasons thereof.
9. For any further information and clarification, candidates may contact Principal Investigator (PI), **Dr. Babloo Chaudhary** on the address given for the correspondence.

APPLICATION FOR THE POST OF JUNIOR RESEARCH FELLOW (JRF)

<u>For Office Use:</u>	Paste your recent passport size photo
Serial Number:	
Eligible for Written exam/Interview: Yes / No	
Verified the Certificates:	

Post Applied for **Junior Research Fellow (JRF)**

1. Name of the Candidate: (Block Letters)		
2(a) Father's Name:		
2(b) Mother's Name:		
3(a) Date of Birth: (DD/MM/YYYY)	3(b) Nationality:	
3(c) Sex: Male/Female/other	3(d) Marital Status: Married/Single	
3(e) Category (Open/OBC/EWC/SC/ST/PWD):		
3(f) Age on 01.06.2026 (in Years):		

4. Address for Communication:

(i) Address for communication:	
(ii) Mobile No:	
(iii) Email ID:	

5(a) Educational Qualifications (Attach self-attested copies of all certificates)



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Name of Exam Passed	Discipline/ Specialization	Board/ University	Name of Institute/ College	Marks/ CGPA	Year of Passing
X					
XII					
B.E./B.Tech					
M.E/M.Tech					
Other (s)					

5(b) GATE Exam

Exam	Qualified	Marks obtained/Total marks	Rank	Year
GATE	Yes / No			

*Attach self-attested copies of all certificates.

5(c) B.Tech/M.Tech Project Titles

B.Tech Project Title	
M.Tech Project Title	

6. Work/Research Experience (if yes, describe it in 200 words in an additional sheet)

Organization	Designation	Duration (Year)	Responsibilities

7. Number of Publications (Attach a separate list of publications with full details, if required):

National	International

8. Other Achievements (Attach a separate sheet, if required):

S. No.	Details

9. Contact Details of Two Referees:



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Particulars	Referee I	Referee II
Name		
Designation:		
Organization:		
Office Address:		
Contact Number:		
Email ID:		

11. Declaration: I hereby declare that I have carefully read the instructions and particulars supplied to the recruitment and that the entries made in this application form are correct to the best of my knowledge and belief. I understand that, if the provided information will be found incorrect, I may be disallowed to appear in the test/interview or terminated at any stage even after selection. If selected for the post, I promise to abide by the rules and discipline of the Institute and ANRF, India. I note that the decision of the Institute is final in regard to selection for the post and assignment to a particular Department and field of study. The Institute shall have the right to expel me from the Institute at any time after my admission, provided it is satisfied that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. Further, if my performance is found not satisfactory, my service can be terminated at any stage. Moreover, my service can be terminated at any stage due to shortage of fund or any other reason(s). I agree that I shall abide by the decision of the Institute, which shall be final.

Date:

Place:

Signature of the Candidate

Note: Attach the list of enclosures along with the application.

NOTE: The envelope containing the application should be super scribed as,

Application for the Position of JRF under ANRF-ARG project title “Earthquake Resilient Novel Reinforced Foundation Techniques for XL Offshore Wind Turbines: Experimental and Numerical Investigations”
