



Junior Research Fellowship at PRL



Advt. No. 12/2023

Applications are invited for the position of Junior Research Fellow (JRF) for a period of 3-4 years. This position is for a project funded by Science and Engineering Research Board (SERB), under the Swarnajayanti Fellowship of Department of Science and Technology (DST) and the post is co-terminus with the project duration. Details are given below:

Name of the post	No. of vacancy	Age as on last date of application	Qualification	Scholarship per month (Consolidated)
DST- Junior Research Fellowship (JRF)	1	Maximum 26 years	1. (a) M.Sc. with 55% marks in Chemistry/Earth Science/Oceanography/Physics/ Atmospheric Science (b) CSIR-NET, UGC-NET including lectureship or GATE or JEST 2. M.Sc. with 55% marks in Chemistry/Earth Science/Oceanography/Physics/ Atmospheric Science	1. Rs. 31,000/- for the first two years and Rs. 35,000/- for the remaining period + HRA as per prevailing rates 2. Rs. 25,000/- for the first two + HRA as per prevailing rates

Project description (Ocean alkalinity enhancement and its impacts on biogeochemical cycling)

It is becoming increasingly clear that over the coming decades we might need reservoirs that can store up to trillions of tons of carbon dioxide (CO₂) emitted from the anthropogenic emissions, which would otherwise pose a serious threat to climate and ecosystems if it were left in the atmosphere. It has been proposed that the enhanced ocean alkalinity through large scale mineral dissolution has potential to provide a solution to store large amount of CO₂ in the ocean. Main objectives of this project is to 1. test the potential of enhanced ocean alkalinity for atmospheric CO₂ removal, 2. identify minerals that can be used to enhance ocean alkalinity in a sustained way, 3. examine the impact of increased ocean alkalinity on carbon, nitrogen and phosphorous cycles, 4. understand the effect of increased alkalinity on oceanic phytoplankton and bacterial community structure.

Application

Interested candidates may send their application in the prescribed format (see annexure-1 below) through e-mail (with subject “DST-JRF”) to the project investigator:

Dr. Arvind Singh
Geosciences Division
Physical Research Laboratory
Navrangpura, Ahmedabad - 380009
E-mail: arvinds@prl.res.in

Last date of receipt of applications: **15 September 2023**

Terms & Conditions:

1. The above position is purely contractual, and for a period of 3-4 years upon successful annual evaluation of the candidate.
2. Only shortlisted candidates will be intimated for the interview.
3. Participation in selection process is subject to possessing relevant original documents substantiating online application submitted by the candidates.
4. Selected candidate will be encouraged to register for a Ph.D.