

**IISER Kolkata Post-doctoral Fellowship (PDF) Programme
Department of Earth Sciences (DES)**

Indian Institute of Science Education & Research Kolkata is the first among five IISERs, to have established a Department of Earth Sciences. The department started its journey in 2007, a year after IISER Kolkata was established. The first batch of BS-MS Earth Science Major students graduated in 2012. Please check the department website for further details: <http://earth.iiserkol.ac.in/>.

The Department is committed to building a community of researchers including students and faculty members. Our goal is to develop a modern center for Earth Science Education and Research in three core areas:

1. Environmental & Ecological studies in modern and ancient systems,
2. Isotope Geochemistry & Biogeochemical studies,
3. Solid Earth studies

Number of positions available:

Maximum 03

Department-specific Eligibility:

At least one publication from the PhD work of the candidate

Departmental Contact:

Email: pdf.des@iiserkol.ac.in

Department-specific Application Format:

Please fill up the form given below and send it to: pdf.des@iiserkol.ac.in

Important Dates:

Last date of submission of application: 15/04/2022

Date of publication of the interview list (tentative): 15/05/2022

Interview date (tentative): 05/06/2022

Date of publication of results: will be informed later

Available Research Areas/projects:

The Department of Earth Sciences is looking for post-doctoral fellows in various research areas. Candidates can apply for the research projects which are listed below. Candidates are also encouraged to apply with their own research proposals related to the available research areas listed below.

Research Project # 1:

Dr. Manoj K. Jaiswal

Applications are invited for Post-Doctoral Fellow in the field of Luminescence Chronology and its applications to Quaternary Geology. Luminescence Dating is a retrospective dosimetry technique to date the event of last daylight exposure of the sediment before burial. Thus, a variety of climatic and tectonic events linked with sediment burial can be explored and dated to reconstruct the past climate and tectonic history, however, restricted to late quaternary. Currently we are interested in (i) Palaeoflood studies in West Bengal from fluvial/aeolian archives and (ii) Late Quaternary landscape evolution in eastern Himalayas, mainly in the frontal part. Applications are invited in this area of interest; however, a good proposal from other areas focussed on the development of the technique or application of Luminescence dating to some interesting areas can also be considered.

Research Project # 2:

Dr. Supriyo Mitra

Project title: Crustal structure of the Himachal Himalaya

A broadband seismological network is operational in the Himachal Himalaya. Teleseismic earthquake data from the network will be used to compute P-wave receiver functions and its joint inversion with surface wave data, to model the crust and uppermost mantle structure. Desirable skills: Proficiency in Linux computing and Receiver function analysis.

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA

Mohanpur – 741246, Nadia, West Bengal, INDIA

Website: www.iiserkol.ac.in

INSTITUTE POSTDOCTORAL FELLOWSHIPS DEPARTMENT OF EARTH SCIENCES

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|-----------------------------------|---|--|--|--|--|----------------------------|--|--|--|--|--|--|
| Department / Centre : | Department of Earth Sciences (DES) | | | | | | | | | | | |
| Proposed Faculty Host : | | | | | | | | | | | | |
| Name of Applicant : | | | | | | | | | | | | |
| Address for Communication: | | | | | | Permanent Address : | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Mobile No. 1 | | | | | | Email 1 | | | | | | |
| Mobile No. 2 | | | | | | Email 2 | | | | | | |

| Date of Birth | | | Nationality | Sex (M/F) | Category (GE/ST/SC/OBC/PD) |
|----------------------|-----------|-------------|--------------------|---------------------|--------------------------------------|
| DD | MM | YYYY | | | |
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PhD Programme details:

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|---------------------------------------|------------|--|--|---------------------|--|
| Title of the Thesis | | | | | |
| Name of the Supervisor | | | | | |
| Name of the Co-supervisor (if any) | | | | | |
| Name of the Institution / University | | | | | |
| Month and year of Submission / Award* | DD MM YYYY | | | Awarded / Submitted | |

* Expected dates in case of PhD degree has not been awarded at the time of applying.

Salient Features of your PhD in 3-5 bullets:

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Details of academic record (from Bachelor onwards)

| Sl. No. | Degree | Year | Institution/University | Subjects | CGPA/Grade/% of Marks |
|---------|--------|------|------------------------|----------|-----------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |

Details of past employment (After Ph.D. onwards)

| Sl. No. | Designation | Organisation | Duration | |
|---------|-------------|--------------|----------|----|
| | | | From | To |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |

Details of Publication (use separate sheet, if required)

| Sl. No. | Title, Authors, Journal |
|---------|-------------------------|
| 1. | |
| 2. | |
| 3. | |

Referees (Three (3) Nos)

| Sl. No. | Name | Contact Address with email and phone number |
|---------|---------|---|
| 1. | | |
| | Email : | Phone : |
| 2. | | |

| | | |
|----|---------|---------|
| | | |
| | Email : | Phone : |
| 3. | | |
| | Email : | Phone : |

Details of the Proposed Proposal (in case of self-identified proposal) OR the Statement of Purpose for the pre-defined research areas/projects listed above (use separate sheet, if required):

*for self-identified project, clearly stated the following within 400 words – Objectives, Methodology, Deliverables

Choice of the Research areas/Project (please see above). For self-identified proposals, please mention your choice of mentor(s) (up to three).

Mentor 1 -

Mentor 2 -

Mentor 3 -

Enclosures (check list √)

- Application Form
- Curriculum Vitae
- List of Publications

Declaration

I hereby declare that all the information provided in the application form is correct to the best of my knowledge and belief. I am aware that providing of incorrect information in the application may lead to cancellation of candidature at any stage.

Place:

Date:

Signature of the applicant

Please send the application along with enclosures, marked “**Application for PDF, Department of Earth Sciences (DES)**” to pdf.des@iiserkol.ac.in.