



Indian Institute of Technology Gandhinagar Palaj, Gandhinagar - 382 355, Gujarat, India

Advertisement for Institute Postdoctoral Fellowship

Applications are invited for a postdoctoral position in the areas of the *mathematical modeling and numerical computations of flow and transport through porous media*. The selected candidate will be carrying research along with Prof. Satyajit Pramanik in the above areas, and will be funded by the institute. More information about the research interests of Satyajit Pramanik can be found on his website <https://sites.google.com/site/satyajitpramanik1/>.

Name of the position

Institute Postdoctoral Fellow.

Salary

Rs. 45,000-60,000 plus Rs. 10,000 as HRA per month.

Selection criteria

Essential

Successful candidate will be have

- A Ph.D. in a relevant subject, such as applied mathematics, engineering, or physics (must be completed or have submitted Ph.D. thesis)
- Expertise in mathematical modeling and scientific computing, perturbation theory, low Reynolds number flow

Desired

- Experience with hydrodynamic stability theory
- Experience in nonlinear dynamics and their manifestation in experimental and/or natural settings
- Experience with collaboration in research, such as being an active part of an interdisciplinary team, independently managing a discrete area of a large project, and interacting with multiple co-authors when preparing research for publication

The successful candidate should also be willing to extend her/his knowledge of non-linear differential equations both numerically and analytically and to learn upper bound theory. Successful candidate should contribute ideas for new research projects, develop ideas for generating research income, and present detailed research proposal to senior researchers. Apart from research, the applicant will be expected to contribute to other academic activities of the Institute including teaching.

Duration:

The appointment is for **one year** (possibility of extension on the basis of performance and the availability of the fund), starting in **July, 2021**, or some other date to be agreed upon.

Application Process:

Application may be sent to Prof. Satyajit Pramanik at satyajit.pramanik@iitgn.ac.in. Each applicant should include **a single PDF file** containing

1. A complete CV with the details of all educational qualifications, research experiences, publications, and names of **three referees** including the Ph.D. thesis advisor and the current employer,
2. Brief summary of doctoral research and the most recent research (**max 1 page**),
3. Future research plans (**max 2 pages**),

and mention “Application for Institute Postdoctoral Fellowship – 2020” as the subject of the email.

Deadline:

The position is *available immediately* and the applications will be **accepted until May 21, 2021**.

Letters of reference:

For full consideration, each applicant **must** request the recommendation letter writers to send the letters of recommendations directly to Prof. Satyajit Pramanik via email at satyajit.pramanik@iitgn.ac.in.