# Indian Institute of Technology Indore
### Khandwa Road, Simrol
### Madhya Pradesh
### Indore 453552

## Advertisement for a Postdoctoral Research  Associate position under SERB sponsored project

IIT Indore invites applications from highly motivated, sincere, hardworking, and research-oriented candidates for the position of a postdoctoral **Research Associate** to work with Dr. Bapan Ghosh, Department of Mathematics, IIT Indore.

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| **Project title** | Delay Differential Equation Models in Population Dynamics: Theory, Methods and Computations |
| **Funding agency** | Science and Engineering Research Board (SERB), New Delhi, India |
| **Position** | Research Associate (one post) |
| **Project details** | ● Formulating some population dynamics models using ordinary, partial and fractional differential equations involving time-lag<br>● Investigating different bifurcations in mathematical models and establishing new theory in ecological systems<br>● Developing algorithms to solve delay differential equations numerically |
| **Qualifications** | PhD in Mathematical Science with publications in reputed journals. However, candidates submitted their thesis may also show interest for a possible opportunity. |
| **Emoluments** | Monthly Rs. 47,000/- + HRA (as applicable) |
| **Duration** | Six (6) months (extendable up to 10th January 2024 or termination of the project whichever is earlier). |
| **Duties/Assignments** | ● Working on the project and derive new results<br>● Mentoring MSc and PhD scholar in the group<br>● Discussion and presentation of new ideas with group members<br>● Preparing teaching material and performing TA duties<br>● Take part in department activities |
| **Application procedure** | Interested candidates are requested to fill up the Google Form through the link: https://forms.gle/biGV5gfLpm2z3y886 latest by **March 15, 2023.** Candidates should request two referees for sending their recommendation letters to keshab.bapan@iiti.ac.in |
| **Additional information** | ● Only shortlisted candidates will be called for an interview. The date and mode of interview will be intimated in due course of time by email.<br>● No TA/DA will be paid if the interview is conducted through offline mode.<br>● Preference will be given to the candidates having experience in developing algorithm of delay differential equations.<br>● The Institute reserves the right to fill or not to fill the post advertised. |