

Advertisement No. inStem/Temp/09/2022

Institute for Stem Cell Science and Regenerative Medicine (www.instem.res.in), an Autonomous Institution under the aegis of Department of Biotechnology, Government of India invites applications for the post of **Project Associate position in the Tubulin Code, Cilia and Homeostasis lab at inStem**

The “*Tubulin code, Cilia and Homeostasis*” laboratory headed by Dr Sudarshan Gadadhar in the *Centre for Inflammation and Tissue Homeostasis at inStem, Bengaluru*, offers two project associate positions for candidates with strong interest in protein biochemistry, cilia biology and tissue homeostasis.

The major research focus of the lab is to understand how different posttranslational modifications (PTMs) of α - and β - tubulin dimers, building blocks of the cytoskeleton, impact the biology and function of the tiny hair-like organelles called cilia, present on most epithelial cells in mammals. The lab is interested in understanding how the primary cilia on different cells within the tissue crosstalk to be able to regulate tissue homeostasis, especially in repair post injury/infections. A major focus of the lab is to understand how the core structural backbone of cilia, the axonemal microtubules, and their posttranslational modifications are modulating ciliary trafficking, thus controlling primary cilia function, and play a role in regulating tissue homeostasis. The selected candidates will address key questions using an interdisciplinary approach that involves *in vitro*, *in cellulo* and *in vivo* analyses with techniques ranging from molecular aspects (biochemistry, molecular biology, *in vitro* reconstitution), through cell biology, advanced microscopy to the level of whole organism understanding.

Check our recent publications as well as visit www.sudarshanlab.com to have an idea of our scientific approaches and questions.

We are located at the **Institute of Stem Cell Science and Regenerative Medicine (inStem)**, Bengaluru, which is one of the premier research institutes of India. As an autonomous research institute of the Department of Biotechnology, research at inStem focusses on bridging clinical and laboratory research with experts in fields of stem cell biology, developmental biology, computational biology, structural biology, biophysics and so on. In addition, inStem has state-of-the-art core research facilities.

Qualifications

We are looking for highly passionate and motivated candidates with a Master’s degree in any branch of Life Sciences or a B. Tech degree in fields related to life sciences from a recognized university or institute. It is advantageous if the candidate has cleared GATE, NET or an equivalent exam.

Candidates with strong background in protein biochemistry and molecular biology (cloning, DNA/RNA isolation) are encouraged to apply. Previous experience with animal handling, cell culture and cell transfection will be an asset but not essential.

Candidates are expected to have the ability to work independently, have good organizational skills, work in an interdisciplinary team, and manage multiple tasks. They will also be responsible for data documentation, validation and compilation, for preparation of manuscripts.

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Post: Project Associate I – Two positions

We offer two full-time fixed term project associate positions for 1 year initially and extendable based on review. The candidates will benefit from technical and conceptual training, mentorship, and career development and will be trained to use cutting-edge technologies and develop independent research thinking. Applicants will be involved in planning and executing the experiments related to *in vitro* reconstitution of proteins, cell biological analyses of the role of tubulin posttranslational modifications in regulating signalling through primary cilia.

Pay Scale: As per Govt. norms based on experience and qualification

Age limit: Below 35 years as on 01-04-2022

Mode of Applications: Only online applications will be accepted. Applications received through any other mode shall stand rejected automatically.

Application Fee: Nil

Application Details

Applicants should submit the following information as a single PDF file:

1. 1 – 2 page Curriculum vitae with current address, phone (mobile) number and e-mail address.
2. 1-page Motivation letter explaining past research experiences, career goals, and motivation to join our laboratory and research programs. Please include the advertisement number in the letter.
3. Contact information of at least two referees.

Any issues while applying online may be addressed to estt@instem.res.in. Incomplete applications will not be considered. Shortlisted applicants will be informed by E-mail and will be interviewed via in-person / electronic mode, depending on the location of the candidate. Appointment will be contingent on medical certification by the campus medical centre.

Incomplete applications shall be summarily rejected and no correspondence in this regard shall be entertained.

Last date for receipt of applications: 5th May, 2022 at 5 pm IST

Note:

1. No selection will be made if suitable candidates are not identified.
2. This position does not provide any guarantee or preference in recruitment for permanent positions

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