

## Advertisement No. inStem/Temp/07/2023

### Advertisement for the position of Post-Doctoral Fellow at Dr. Reena Singh's Laboratory

Institute for Stem Cell Science and Regenerative Medicine ([www.instem.res.in](http://www.instem.res.in)) is an Autonomous Institution under the aegis of Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India invites applications for the post of Post-Doctoral Fellow in the laboratory of Dr. Reena Singh, Scientist- E at DBT inStem.

Dr Singh's laboratory research program is focused on understanding and identifying novel therapeutic approaches for unmet clinical needs in cardiometabolic health. Dr Singh's lab utilises the unlimited potential of human pluripotent stem cells (hPSCs) to develop physiologically relevant 3-D organoids for mechanistic insights, physiological studies and potential replacement therapies for disease management and cure. Our study is designed to understand the effect of microenvironment niche and cross-talk between developing tissues on progenitor or stem cell specification, fate determination, organ development and physiological function. We utilise our expertise in developmental and stem cell biology, biochemistry, molecular biology, omics, gene editing, cellular and systems physiology to develop and validate our model. Dr Singh is a Developmental and Stem Cell biologist and has contributed to identifying factors and dissecting underlying mechanisms of congenital (cardiovascular) and chronic (diabetes) human diseases. She has made seminal contributions in the field of stem cells by developing human pluripotent stem cell-derived insulin-producing islet cells and identifying the effect of the microenvironment on insulin-producing cells' maturation and physiological function.

**Post:** Post-Doctoral Fellow

**Qualifications:** PhD (any branch of life Sciences from recognized university/institute)

**Job Responsibilities:** Dr Singh's laboratory has an immediate opening for a postdoctoral fellow to work on one or more developmental and stem cell biology projects. Our lab has pioneered expertise in Stem Cell-derived 3-D organoids, CRISPR-Cas9 gene editing, developmental studies utilising murine model, single cell biology (transcriptomics and metabolomics), molecular biology, biochemistry and physiological studies. We are looking for a self-motivated individual interested in learning and contributing to a highly competitive research program in vascular biology and diabetes. Applicants with skills in molecular biology, mouse genetics, mammalian cell culture, stem cell biology, synthetic biology, and physiology are encouraged to apply.

Institute for Stem Cell Science and Regenerative Medicine (DBT-inStem) is a flagship institute that provides an intellectually stimulating environment and special training opportunities to nurture the next generation of leaders in science and medicine.

Special training programs are available for Human pluripotent Stem Cells, state-of-the-art Confocal and Light Sheet microscopy, single cell biology, gene editing, murine model and other technological advances.

**Pay Scale:**

As per Govt. norms based on experience and qualification

**Age limit:** Below 35 years as on 01/08/2023

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

**Application Fee:** Nil



## How to Apply:

To apply for the position, interested candidates may log into DBT-inStem websites – Careers-Open positions (<https://www.instem.res.in/jobportal/>)

## Application Details

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

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](mailto: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.

## Application Deadlines

**Last date for receipt of applications:** 01<sup>st</sup> August, 2023

**Start date of the position:** Immediate

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

## Contact Us:

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