SuRF @inStem

DBT-inStem

Summer Research Fellowship

2024

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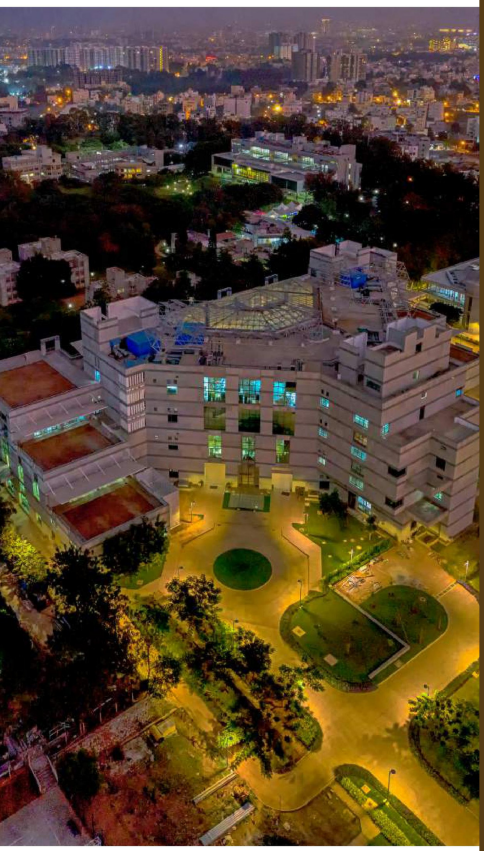
Table of Contents

ABOUT US



The Institute for Stem Cell Science and Regenerative Medicine (inStem) is India's first stem cell research institute. We are funded by the Department of Biotechnology, Government of India.

inStem has a dynamic group of faculty members addressing a gamut of questions at the cutting edge of stem cells and regenerative medicine. Research at inStem ranges from studies on fundamental biological processes to translational research with clinical impact. Researchers at inStem use a wide range of models including embryonic and induced pluripotent stem cells, yeast, flies, flatworms and mice to study different aspects of stem cell biology and regeneration.

inStem is located within the vibrant Bangalore Life Sciences Cluster (BLiSC) campus which also houses the National Centre for Biological Sciences (NCBS), Centre for Cellular and Molecular Platforms (C-CAMP) and the Tata Institute for Genetics and Society (TIGS).

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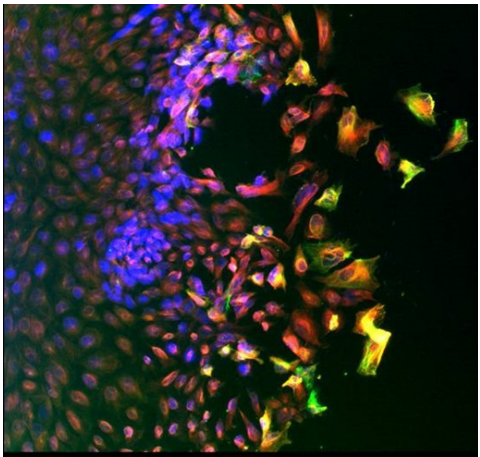
PROGRAM OVERVIEW

The inStem Summer Research Fellowships program places students with faculty members at inStem for a mandatory 10-week long summer research internships.

The program provides an intensive research experience for students preparing to pursue their PhD in Life Sciences. Students will participate in individualized projects in a research lab at inStem which will enhance their experimental skills and prepares them to articulate a research problem and design experiments to tackle novel questions. The program will provide students an immersive experience of an academic research environment which will allow them to envisage the rigor and discipline required for a PhD degree. This is the first year of the fellowship program and we are excited to open our doors to students from across the country, striving for diversity and inclusivity.



Mesenchymal stem cells migrating out from a differentiating embryonic stem cell colony

Students selected under this program will have the opportunity to work under the following verticals:

1. **Stem cell biology:** Cutting edge research in human pluripotent stem cells that tackle areas ranging from tissue development, congenital disorders and neurodegenerative diseases.
2. **Tissue engineering:** Development and maintenance of organ structures and how tissues regenerate in response to an injury.
3. **Chemical biology:** Research ranging from RNA biology to the metabolic underpinnings of cell fate decisions.

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PROGRAM DETAILS

DURATION:
MAY 13-JULY 19 (10 WEEKS)

WHO IS ELIGIBLE?

Students who are currently enrolled in the B.Sc., M.Sc., B. Tech., or M. Tech degree programs in India are eligible to apply. Students who have completed their degree program prior to the start of the internship are not eligible to apply. Although students with Life Sciences background are the primary target of this program, we encourage students in diverse disciplines like chemistry, physics and mathematics to apply.

SELECTION CRITERIA

Multiple criteria like overall academic performance, research interest, fit with inStem, space and availability, reference letters and suitability of the candidate will be considered.

APPLICATIONS CAN BE SUBMITTED HERE

Only online applications will be accepted. In case of any technical issues please write to surf@instem.res.in

Applicants are encouraged to submit their applications before the deadline to avoid last minute technical issues.

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APPLICATION TIMELINE

01	February 25, 2024	Online applications open
02	March 25, 2024	Online applications close Application screening begins
03	April 15, 2024	Decision communicated to successful applicants
04	May 13, 2024	Program starts with orientation session
05	July 19, 2024	Program ends with poster presentation

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PROGRAM OFFERINGS

DURATION:
MAY 13-JULY 19 (10 WEEKS)

YOU CAN EXPECT THE FOLLOWING

Orientation: Fellows will be given an overview of inStem and the campus

Laboratory research: Fellows will be placed with inStem faculty and will work in their laboratories on a defined project.

Short courses: Fellows will be provided an opportunity to participate in short courses or workshops on campus, in several areas (programming and statistics, or science communication, or poster making and presentation, etc.)

Lecture series: Students will get to hear talks from eminent scientists on campus and from researchers at other Institutes in Bengaluru about their research.

Final presentations: Fellows will present their work as short research talks to the campus.

Completion Certificate: An internship certificate will be presented to all the fellows upon completion of the program.

Note: Participants must mandatorily attend the full 10-weeks for successful completion.

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GET IN TOUCH

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