



IPS ACADEMY – INSTITUTE OF ENGINEERING & SCIENCE

DEPARTMENT OF MECHANICAL ENGINEERING
RAJENDRA NAGAR, INDORE - 452012, INDIA

June 24, 2024

Advertisement for JRF Position (1) and Teaching Assistants (2)

Applications are invited from motivated and eligible candidates for the position of JRF (1 position) and teaching assistants (2 positions) positions in a research project entitled “**Drug diffusion studies in Skin-on-a-Chip Devices: Numerical Simulations and Experiments**”, sponsored by Science and Engineering Research Board (SERB), Govt. of India and IPSA-IES.

- **Last date to apply: August 2, 2024**
- **Research areas keywords:**
 - (1) Experimental Microfluidics, Microscopy & Imaging, Microfabrication techniques
 - (2) Computational Fluid Dynamics (CFD), Fluid flow & Mass Transfer, Mathematical Modelling and Simulations
 - (3) Animal cell culture, knowledge of skin structure, Assessing the safety and potential side effects of topical drugs.
 - (4) Electrode function, signal processing, impedance measurement, data acquisition, microcontroller/processor programming

1. Essential Qualification:

B.E./B.Tech or M.E./M.Tech	<ul style="list-style-type: none">• Mechanical/ Chemical/ Biomedical Engineering/ Biotechnology, Electrical/ Electronic or any other relevant branch• Engineering / Technology background candidates only are eligible.	<u>Desirable:</u> Working experience in Microfluidics, CFD Software's, Animal cell culturing, data acquisition with impedance measurement
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2. Other details

No. of Vacancies	01 JRF Position + 02 Teaching assistant's positions
Fellowship	Rs. 31,000/month + HRA, as per rules, for a duration of 12 months (Fellowship will be provided as per the funding agency rules).

How to apply?

- Send your CV to recruitment.ies@ipsacademy.org, cc to jponmozhi@ipsacademy.org with subject line "Application for SkinChip Project"
- **Also**, fill this Google form – <https://tinyurl.com/2uunrxay> or <https://forms.gle/P9cTdzXefGYUHgD27>
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NOTE:

- **About the project:**

The project deals with the diffusion of drugs in skin-on-a-chip devices. Candidates with Mechanical/Chemical/Biotechnology/ Biomedical/ Electrical/ Electronic or relevant background, if selected, will be involved in the project.

- **PhD Registration:** The selected candidate may be considered for admission to the PhD program as a regular full-time scholar depending on the eligibility criteria and available extended funding.
- **Hostel:** The selected candidate may get hostel accommodation inside the campus based on availability. If hostel accommodation is not available, student will have to stay in accommodation that may be available adjacent (i.e., outside) to the campus.
- **Details to be included in CV:** Please note that the CV should include contact details (address, mobile phone no., email ID), date of birth, qualifications, research experience and publication details (if any) and contact details of two referees. Complete information of GATE score such as year of passing and validity, discipline, score, marks, all India rank should be mentioned in the CV.
- **Incomplete Applications:** Incomplete applications may not be considered.
- **Shortlisting:** Please note that only shortlisted candidates will be called for the online/offline interview.
- **Missed the deadline?** Contact the PI of the project in case you missed the deadline.
- **Contacting the PI** – Contact details of PI of the Project are as follows:

Prof. J.Ponmozhi

Professor, Department of Mechanical Engineering,
IPS Academy - Institute of Engineering & Science, Indore.

Email: jponmozhi@ipsacademy.org

Web: <https://sites.google.com/view/jponmozhimicrofluidics>