

Proposal for announcing seat under the Institute Internship Program

(separate form to be filled for seat under Institute funding and project funding)

1. Name of faculty member proposing: **Pooja Jangir**
2. Department/Centre: **Chemical Engineering**
3. Topic on which work is proposed: **Flow in microchannels**

4. Preferred period of internship (after May 20th): **Between _22 May_2024 to _30 June 2024**

5. Qualification of student (branch/semester of study): **B. TECH (BIOTECHNOLOGY) PURSUING AMITY UNIVERSITY LUCKNOW
CURRENT SGPA-8.09 Sem-VI**

6. Brief description of work (300-500 words): **Student will work on the migration of microparticles in the microchannels under different flow conditions. The effect on microparticles focusing in straight and spiral channels will be studied using numerical simulations on COMSOL Multiphysics. We will be exploring the role of dean drag and inertial forces on the particle focusing positions in microchannels.**

7. Expected learning of student (upto 100 words): **Student will learn about the computational fluid dynamics and different numerical schemes to solve the flow related problems.**
8. Nature of work: (Experimental/simulation/mathematical modelling/data collection-analysis etc.): **Numerical Simulation of flow in microchannels using COMSOL Multiphysics**

9. If the seat is under project sponsored category: Yes/No
a) If yes, number of seats announced: **2**
b) Name and ID no. of project from which stipend is chargeable

3168
10/5/24
ATS/004548
10/05/24

Dean/Academics
- DR for Jy

Pooja Jangir
10/05/2024

Signature of faculty member

Name of department/Centre

Note:

- a) Proposing faculty member needs to be available at the Institute during the period internship is offered
- b) No extra space or funding than the stipend will be provided by the institute for this purpose