



INDIAN INSTITUTE OF TECHNOLOGY ROPAR

Rupnagar, Punjab – 140 001 (INDIA)

Advertisement for the position of a Junior Research Fellow (JRF)

July 4, 2019

WALK-in interview on 25.07.2019

The **Dept. Mech. Eng., IIT Ropar** invites applications for one full-time position of a junior research fellow (JRF) for an SERB-core research grant project. The fellow will be working at the Combustor Dynamics and Controls lab at IIT Ropar with **Dr. Lipika Kabiraj** and in collaboration with **Dr. Neel Nirmalkar** (Dept. Chem. Eng.) on developing liquid fuel combustion. The lab's current research focus includes novel concepts in combustion and clean energy generation. Research activities are being conducted in collaboration with national and international partners and the lab is financially-supported by IIT Ropar and national R&D institutes.

**Tasks**

The JRF will have the opportunity of working on research tasks concerning fluid dynamics, spray dynamics, heat transfer, and combustion. The tasks assigned would largely deal with experiments but may also involve analytical studies and low-order numerical modeling. The fellow will be required to contribute to the research group by undertaking responsibilities related to (but not limited to) designing experiments, conducting the experiments, data preparation, post-processing, and documentation. Tasks are to be performed under the direct supervision of Dr. Lipika Kabiraj and it is expected that the JRF takes the initiative and shows creativity in arriving at innovative solutions to technical problems during the project.

**Eligibility: essential qualifications**

MTech in Mechanical/Chemical/Aerospace Engineering and GATE or CSIR UGC NET qualified.

**Desirable qualifications/skills**

Experience with Matlab or similar software, CAD, and COMSOL.

**Mode of selection: Walk-in interview**

Interviews will be conducted on 25.07.2019, 14:00–16:30 at Transit Campus I, IIT Ropar. Candidates eligible for the position must contact Dr. Kabiraj **before 19.07.2019** to indicate the intent to appear for the interview. Applicants are required to bring original copies of their degree certificates, resume, project reports, research articles, and any other document that might support their application. No TA/DA will be provided for attending the interview. Candidates reaching after 16:00 will not be entertained.

**Duration of contract**

The duration of the project is three years. The JRF position will be given initially for six months and may be extended subsequently based on satisfactory performance to be reviewed three months from the date of joining the fellowship.

**Salary**

The pay will be in accordance with the SERB norms for a JRF position: INR 31000 pm (consolidated).

**Contact**

Dr. Lipika Kabiraj

Assistant Professor, Department of Mechanical Engineering

Email: lipika.kabiraj@iitrpr.ac.in

Website: <https://lkabiraj.gitlab.io/>