

Advertisement

PhD Program in Central Instrumentation Facility (CIF), RGIPT Jais Campus

The **Central Instrumentation Facility (CIF)** at the Rajiv Gandhi Institute of Petroleum Technology (RGIPT) invites applications for admission to a **newly established PhD program** focused on the **technical operation, management, and advanced utilization of high-end scientific instruments** housed within the CIF.

This program is specifically designed for highly motivated candidates who possess a strong aptitude for **hands-on operation of sophisticated analytical and characterization instruments** routinely used in cutting-edge scientific and engineering research.

Scope and Responsibilities

Candidates admitted to this PhD program will play a dual role as doctoral researchers and active contributors to the functioning of the CIF. The key responsibilities include:

- Assisting the CIF in sample analysis services received from internal users and external agencies, with a minimum engagement of 8 hours per day.
- Supporting the routine operation, monitoring, and upkeep of CIF instruments, including scheduling, calibration checks, and usage logging.
- Developing a deep technical understanding of instrument operation, performance limitations, and commonly occurring operational or hardware-related faults.
- Actively participating in diagnosis, troubleshooting, and preventive maintenance, in coordination with CIF technical staff and vendors.
- Engaging, when required, in fabrication or modification of components, fixtures, or accessories to improve instrument usability or reliability.
- Proposing and implementing innovative and creative solutions to operational challenges encountered during routine or advanced experimental work.

During the first year, candidates will also be required to complete the prescribed coursework as per the RGIPT PhD regulations. Notably, no Teaching Assistant (TA) duties will be assigned, allowing candidates to focus entirely on CIF activities and doctoral research.

Eligibility and Instrument Familiarity

Applicants are expected to demonstrate prior familiarity and insightful understanding of at least three instruments from the CIF instrument list (provided at the end of the advertisement). Familiarity may include:

- Hands-on operational experience
- Data acquisition and analysis
- Understanding of underlying working principles
- Awareness of common errors, faults, and limitations

Research Proposal Requirement

Each applicant must submit a **detailed research proposal** along with the application form. The proposal should:

- Be centered on the utilization of at least three CIF instruments with which the candidate claims familiarity.
- Clearly outline the **research objectives, methodology, and expected outcomes**.
- Reflect a balance between **instrument development/optimization, applied research, or advanced analytical applications**.
- Be aligned with the *energy* mandate of the Institute.

Upon admission, the submitted proposal will form the **basis of the candidate's PhD dissertation topic**, subject to refinement as per institutional norms.

Selection Process

The final selection will be based on a **three-stage evaluation process**:

1. **Screening of applications and research proposals**
2. **Written test** assessing technical understanding of instruments and analytical concepts
3. **Personal interview**, focusing on instrument knowledge, problem-solving ability, and research aptitude

Appointment and Registration Timeline

- **Temporary appointment as CIF Staff Member:** Selected candidates will initially join CIF as temporary staff from **1st April 2026**.
- **PhD Registration:** Formal registration into the PhD program will commence in the **Odd Semester of the Academic Year 2026–27 (August 2026)**, subject to satisfactory performance during the initial CIF engagement period.

Number of Openings: Total positions available: **5 (Five)**

Important Dates

- **Last date for submission of applications:** 22nd February 2026
- **Written test and interviews:** 1st March 2026
- **Joining as CIF staff member:** 1st April 2026

Remuneration

- **During CIF staff engagement (prior to PhD registration):** ₹25,000/- per month (consolidated)
- **After registration as PhD scholar:** Fellowship and remuneration will be **as per RGIPT norms**, applicable at the time of registration.

Note: This program offers a **unique opportunity** to pursue doctoral research while gaining **extensive hands-on experience with advanced scientific instruments**, making it particularly suitable for candidates aspiring for careers in **central facilities, R&D laboratories, advanced manufacturing, analytical services, and research infrastructure management**.

For any query please contact at the following email ID: **incharge_cif@rgipt.ac.in**