



Special Ph.D. Admission Drive in “Quantum Light”

Indian Institute of Science Education and Research, Mohali

July 7, 2025 (Online Interview)

July 14, 2025 (Offline Interview)

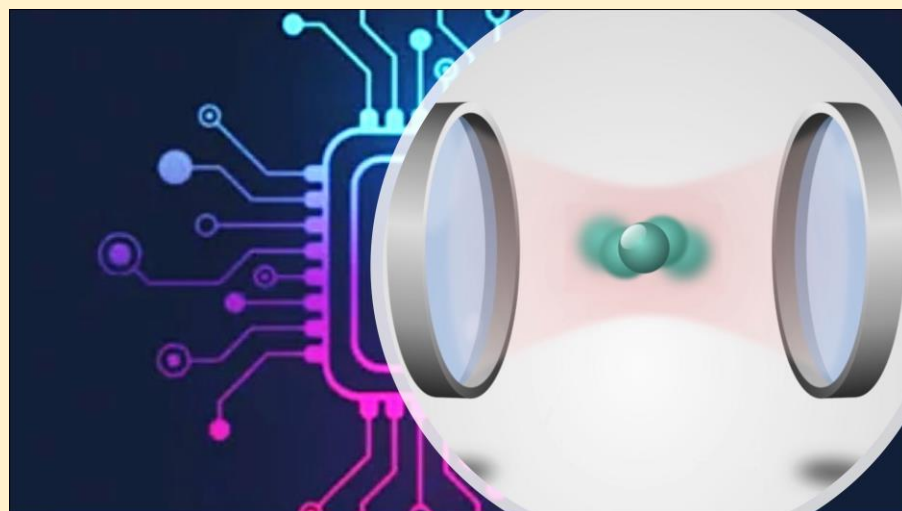
About The Special Drive

Department of Chemical Sciences, IISER Mohali is conducting a special drive for Ph.D. admission in the August 2025 session in the area of “**Quantum Materials and Processes with Quantum Light**”. This is to commemorate UNESCO's declaration of the International Year of Quantum Science and Technology (IYQ), celebrating 100 years of quantum sciences to work at the forefront of research. Applications are invited from candidates of all categories.

Eligibility: *M.Sc. in Chemistry / Physics / Mathematics. A valid GATE/NET/CSIR-UGC (JRF)*

Potential Research Areas

- Quantum Electrodynamics (QED) Chemistry
- Molecular Strong Coupling
- Quantum Transport - Polaritronics
- Quantum Sensing
- Molecules in Intense Laser Fields
- Machine Learning Spectroscopy and Dynamics
- Molecular Quantum Nanophononics
- Nonlinear Spectroscopy with Quantum Light
- Quantum Chemistry



Important Dates

❑ **Last date of online application**

June 30, 2025 (5 PM IST)

❑ **First Interview (Online)**

July 7, 2025 (Monday)

❑ **Second Interview (Offline-for shortlisted candidates)**

July 14, 2025 (Monday)



Scan to Register

Potential Research Groups

[Dr. Jino George, Personal Page](#)

[Dr. P. Balanarayan](#)

[Dr. Sajal Kumar Giri](#)

Registration Details

[Apply Online](#)

Special Ph.D. Admission Drive in “*Quantum Light*” at IISER Mohali

Department of Chemical Sciences, IISER Mohali is conducting a special drive for Ph.D. admission in the August 2025 session in the area of “**Quantum Materials and Processes with Quantum Light**”. This is to commemorate UNESCO's declaration of the International Year of Quantum Science and Technology (IYQ), celebrating 100 years of quantum sciences to work at the forefront of research.

A. Interview Schedule

- **First Interview (Online)**

July 7, 2025 (Monday), Time: 10:00 AM onwards

Zoom Link: Will be shared with the applicants closer to the date.

- **Second Interview (On Campus, for shortlisted candidates)**

July 14, 2025 (Monday), Time: 10:00 AM onwards

B. Eligibility / Criteria

- I. **Academic Background:** Applicants must hold a Master's degree (M. Sc.) in Chemistry / Physics / Mathematics.
- II. **Research Interests:** Strong interest in interdisciplinary research in the areas of Physical Chemistry / Quantum Chemistry / Machine Learning.
- III. **Desirable Research Background (Preferred but not mandatory)**
 - a. *Quantum Electrodynamics (QED) Chemistry*
 - b. *Molecular Strong Coupling*
 - c. *Quantum Transport - Polaritronics*
 - d. *Quantum Sensing*
 - e. *Molecules in Intense Laser Fields*
 - f. *Machine Learning Spectroscopy and Dynamics*
 - g. *Molecular Quantum Nanophononics*
 - h. *Nonlinear Spectroscopy with Quantum Light*
 - i. *Quantum Chemistry*
- IV. Applicants should have a valid GATE/NET/CSIR-UGC (JRF) qualification.

C. Required Documents (for shortlisted candidates)

- I. Applicants must bring their original examination qualifying certificates, proof of age, government recognized photo ID, SC/ST/OBC-NCL/EWS/PwD certificate (if applicable) and two copies of recent passport-sized colour photographs.

- II. Applicants are also required to bring self-attested photocopies of all the above-mentioned documents. The originals will be returned after verification; photocopies will be retained by the admission committee.

D. How to Apply

Interested candidates may register online at the following link

[Apply Online](#)

Last date of online application: **June 30, 2025 (5 PM IST)**

E. Contact for Queries

For any questions related to the admission process or interviews, please contact Dr. Jino George and Dr. Sajal Kumar Giri.

Email: jgeorge@iisermohali.ac.in; sajal@iisermohali.ac.in

N. B.

- I. Reservation rules will apply as per the Government of India guidelines.
- II. For in-person interview: Applicants must arrange their own travel and accommodation. IISER Mohali may provide limited campus accommodation, if requested, at a charge 200 - 500 INR per night. This facility is strictly for interview purposes and limited to 1-2 nights. Further details will be communicated later.
- III. Applicants are encouraged to explore the potential research groups at IISER Mohali and may consider engaging with the following research groups:

[Dr. Jino George, Personal Page](#)

[Dr. P. Balanarayan](#)

[Dr. Sajal Kumar Giri](#)

Number of Available Positions:

Experimental Research: 3 positions

Theoretical / Computational Research: 6 positions