

Research positions in Quantum Information Theory ♦ *Ignacio Cirac – Caixa Manresa programme-chair* ♦

ICFO – the Institute of Photonic Sciences (www.icfo.es) is currently offering research positions within the *Ignacio Cirac – Caixa Manresa programme-chair* at ICFO to well-qualified, highly motivated and dynamic young scientists who wish to enhance their scientific career in the research area of **Quantum Information Theory** in a friendly and stimulating environment.

The *Ignacio Cirac – Caixa Manresa* programme-chair at ICFO aims at promoting research, outreach and dissemination in quantum information science and technology, as well as at promoting entrepreneurship and frontier research at large.

Research positions offered within this scope are:

- PhD studies positions
- Postdoctoral research positions

The selected “*CaixaManresa Fellows*” will be part of the collaborative projects in Quantum Information Theory carried out between the quantum theory research groups of Prof. Antonio Acín and Prof. Dr. Maciej Lewenstein at ICFO, and the Quantum Optics Theory Division led by Prof. Dr. Ignacio Cirac at the Max-Planck-Institute of Quantum Optics (MPQ, Garching, Munich/ Germany).

The projects to be accomplished may concern any of the open challenges of Quantum Information, from mathematical theory of entanglement to implementations in physical systems.

The research positions will be based at the ICFO – The Institute of Photonic Sciences in Castelldefels (Barcelona), Spain. However, predisposition for mobility is highly desirable; there will be support for frequent visits to the MPQ in Garching (Munich/ Germany), as well as to other strong collaborations expected.

Eligibility and conditions

Candidates for PhD studies positions should preferably hold an internationally-recognized Master degree; however, candidates with a Bachelor degree will also be considered.

Candidates for postdoctoral positions must hold an internationally-recognized PhD degree (or evidence of its completion in the nearest future).

In any case, the relevant degrees should be achieved in theoretical physics (mathematics or computer sciences may also be considered). The candidate should possess hands-on experience in theoretical physics, mathematical methods, numerical and simulation methods.

No restrictions of citizenship apply to the ICFO positions.

PhD studies fellows are offered for periods of 1 year, renewable to a total of up to 4 years. Postdoctoral contracts are offered for periods of 1 year, renewable for a total of up to 5 years.

Application procedure

Suitable candidates are requested to submit:

- A presentation letter with a declaration of interest,
- A Curriculum Vitae, including full address, a contact phone number and e-mail
- The contact e-mail of three potential referees.

Applications should be submitted to: icfojobs@icfo.es (mailing label “QIT-Manresa” and your last name printed before the label). Applications can also be submitted by post to the Screening Committee.

Candidates should be willing to be contacted by phone during the selection process.

Deadlines

The call will remain open until suitable candidates are identified.