

Assistant Professor in Photonics

November 2, 2023

1 Job description

Are you passionate about nonlinear photonics ? Do you wish to become a high-profile and valued member of a team at the forefront in nonlinear photonics ? Do you wish to educate a diverse and enthusiastic next generation of physicists ? All in the heart of the Spanish Balearic Islands in the Mediterranean sea ?

Looking to further strengthen the ambitious and diverse group of researchers of the Nonlinear Wave Group (ONL, for “Ondas No Lineales”) at the university of Balearic Islands (UIB), we have opened a tenured assistant professor position in the field of photonics. The ONL group is part of the IAC3, a vibrant multidisciplinary institute that comprises six groups with topics ranging from nonlinear dynamics, high performance computing, mathematics, general relativity and stellar physics.

You will be able to collaborate in existing projects, both experimental and theoretical, as well as to build your own independent research program, by generating funding, and supervising/coaching students at the bachelor/master/PhD level – with full support from your colleagues, the institute, and the university. You will be teaching at the bachelor and master level around 200h per year (~8h a week).

Importantly, the professor accreditation for the Spanish university system must be carried out before the deadline of the application in april-may 2025. The latter can be obtained if your curriculum contains approximately 10 publications at the level of, e.g., Phys. Rev. A, and 200 hours of lectures. The full process takes less than 6 months.

2 Job requirements

- Enthusiastic researcher with a PhD in Physics, theoretical or experimental, and at least 4 years of experience as a researcher.
- The ability to conduct high quality academic research, demonstrated by a relevant PhD thesis and publications in high impact journals.
- Capability to teach and assist in the teaching process, shown by experience as well as positive evaluations of these teaching efforts.
- The ability to work collaboratively in a team and the potential for independent scientific work.
- Experience in acquiring external research funding from (inter-)national funding bodies or industry is an asset.
- The accreditation for the Spanish University System must be obtained before the application deadline.
- Proficiency (written and verbal) in Spanish or Catalan as well as in English.

3 What we offer

- A permanent (tenured) position in a unique research group that combines theoretical and experimental work in Photonics.
- A dynamic and ambitious research group, in an interdisciplinary setting and within an international network.
- Work on a beautiful island, on a green campus within walking distance of the metro station leading you in 10 minutes to the city center.

- A development track with the prospect of becoming associate then full professor as well as functionary of the state.
- Annual holiday: 30 days
- Public health insurance.

4 About us

4.1 Mallorca

Mallorca is one of the Spanish Balearic islands in the Mediterranean sea. It is famous for its seaside resorts, protected coves, limestone mountains and Moorish and Roman ruins. Palma, its capital, offers nightlife spots, the Moorish Royal Almudaina Palace and the 13th-century Palma de Mallorca Cathedral. Among the stone villages are Pollença, with its art galleries and music festival, and Fornalutx, on the hillside and surrounded by citrus groves.

4.2 The UIB

With more than 10000 students and 1000 employees in teaching and research, all working together to shape perspectives for the future – that is the University of Balearic Islands. Embedded in the vibrant atmosphere of Palma de Mallorca with its high standard of living, the University’s diverse research profile and attractive study programs draw students and researchers from around the world. The University of the Balearic Islands invites you to study and research in a privileged backdrop, where the tranquillity, well-being and joy of the Mediterranean come together in perfect harmony with a work-oriented environment designed to educate, generate knowledge and innovate, alongside a commitment to excellence in research and teaching. The university campus enjoys excellent transport links and houses all the necessary facilities and services for university life.

The Times Higher Education World University Rankings 2019 places the UIB as the sixth best in Spain in terms of publication citations of its researchers. The UIB is among the 101 to 150 best universities under fifty years old around the world and holds third place among Spanish universities, only coming behind the Pompeu Fabra University and the Rovira i Virgili University. The Times Higher Education Young University Rankings includes 351 universities from around the globe.

4.3 The Nonlinear Wave Group and the IAC3

The Nonlinear Wave Group possesses an internationally recognized expertise on the dynamics of semiconductor mode-locked lasers, time delayed systems, soliton dynamics and optoelectronic systems. The latter can be assessed from the consistent and high quality scientific output of the group, see our complete list of publications : onl.uib.es/publications.html. The ONL group at the University of Balearic Islands is part of the Institute of Applied Computing & Community Code, the IAC3. The institute comprises six groups with topics ranging from nonlinear dynamics, high performance computing, mathematics, general relativity and stellar physics. The IAC3 was created by the UIB in July 2008, and it was officially recognized by the Government of the Balearic Islands by March 2015. The focus of the Institute is based on the synergies created by the integration of different research groups, with various expertise with a common ground being the quest for excellence.

5 Information and application

Do you recognize yourself in this profile and would you like to know more? Please contact the PI of the group julien.javaloyes@uib.es for more details. Your application should include a:

- Cover letter in which you describe your motivation and qualifications for the position.
- Curriculum vitae, including a list of your publications and the contact information of two references.
- List of five self-selected ‘best publications’ with a short description for each why you selected them.
- Description of your scientific interests and research plans (1-2 pages).
- Statement of your teaching goals and experience (1-2 pages).

5.1 Accreditation

- Details for the university accreditation process can be obtained here: <https://www.aneca.es/en/contracted-staff>

6 timeline

The timeline for recruitment is as follows:

- April 2024: Application deadline.
- June 2024: Invitations for the online interviews.
- July 2024: Online interviews with the selection committee and decision.
- September 2024: incorporation with teaching duties

6.1 Equal Opportunity and Non-Discrimination Principle

The University of Balearic Islands is an equal opportunity employer and follows a non-discrimination and equal access principle, where no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever. We explicitly encourage female researchers to apply for the offered position. Among equally qualified applicants, disabled candidates will be given preference.