

2 PhD POSITIONS AT UNIVERSIDAD AUTÓNOMA DE MADRID

MARIE SKŁODOWSKA-CURIE ACTIONS TRAINING NETWORK “QUANTUM INFORMATION SCIENCE AND ULTRAFAST NON-LINEAR COHERENT CONTROL AT THE ATTOSECOND TIME SCALE (QU-ATTO)”

PhD 1: *“Identifying new strategies for controlling entanglement and decoherence in molecular photoionization”.*
For application or more information, **contact:** fernando.martin@uam.es

Theoretical and computational project to be developed within the [CAMPUS group](#), led by [F. Martín](#), in close collaboration with the group of Marc Vrakking at MBI Berlin in which experiments will be performed in parallel. The CAMPUS group has a long trajectory developing state-of-the-art theoretical tools in attosecond science and other fields to investigate ultrafast dynamics in atoms, molecules and condensed matter. Currently running the ERC-Synergy Grant TOMATTO: “The ultimate Time scale in Organic Molecular opto-electronics, the ATTOsecond”. More info about the group can be also found in the [EU-project website](#).

PhD 2: *“Electronic correlation investigated by sculpted attosecond waveforms”.*
For application or more information, **contact:** alicia.palacios@uam.es

Project to be developed within a young research team lead by [A. Palacios](#), working in close collaboration with the experimental [qu-atto team](#) (J. Mauritsson at Lund University and C. Callegari at FERMI) and with Prof. J. Feist (<https://johannesfeist.eu/>) from the Condensed Matter Physics Center (IFIMAC). Our joint project aims to explore the correlated electron dynamics induced by attosecond laser pulses, X-UV and X-Ray free electron lasers, strong electromagnetic fields and novel scenarios employing quantized light sources.

POSITION DETAILS: 36-month duration contract. The positions will start, preferably, within 2024. Check [eligibility criteria](#). Positions remain open until filled.

CANDIDATES PROFILE: Master’s Degree in Physics, Chemistry or related fields. Background on numerical methods and/or programming skills will be valued.

APPLICATION: CV, motivation letter and records transcript to the above-indicated contact person.

QU-ATTO NETWORK: Applicants will collaborate and receive solid training in the network <https://quatto.eu/>

[More information: 15 PhD positions in attosecond and quantum information science MSCA doctoral training network QU-ATTO | EURAXESS \(europa.eu\)](#)

