

## Call 2 – Available Positions



- **Sensing platforms based on functionalized graphene with bioinspired molecules** – Núria Aliaga-Alcalde & Esther Barrena-Villas
- **Novel luminescent single-molecule magnets for advanced magneto-optical applications** – Elena Bartolomé & Rosario Núñez
- **Multifunctional nanocomposites for aqueous metal-air batteries** – Dino Tonti & Pablo Guardia
- **Bio-friendly and flexible electronic devices for sensing** – Marta Mas-Torrent & Anna Lormaine
- **Manipulating phonons at the nanoscale** – Riccardo Rurali & Juan Sebastián Reparaz
- **Quantum phases in complex oxides** – Jose Luis Garcia-Muñoz & Gabriele De Luca
- **Complex iron nitrides: from quantum materials to permanent magnets** – Amparo Fuertes & Martí Gich
- **Photoswitchable systems for molecular electronics** – Núria Crivillers-Clusella & Kasper Moth-Poulsen
- **Spintronics on strongly correlated oxide materials** – Alberto Pomar & Narcís Mestres

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- **Micro batteries for autonomous detection of events in biological environments** – Neus Sabaté Vizcarra



- **Engineering flexible, conformable substrates for monitoring and treatment of brain disease** – Kostas Kostarelos & José Antonio Garrido
- **Nanosolutions for medicine, energy-efficient information systems and sustainable energy** – Gustau Catalan, Daniel Maspoch, Aitor Mugarza & Pablo Ordejón

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- **Development of a new generation of nanometric thin film-based photovoltaics for ubiquitous applications** – Alejandro Pérez & Víctor Izquierdo
- **Self-healing batteries** – Andreu Cabot



- **Plant adaptation to climate change through genetic engineering of the brassinosteroid pathway** – Roeland Boer & Ana Caño Delgado
- **Preparation and characterization of novel catalysts for hydrogen energy technologies** – Carlos Escudero & Jordi Llorca

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# UAB

## Universitat Autònoma de Barcelona

- **Point-of-care biosensing devices for nanovesicle detection in healthcare applications** – Maria Isabel Pividori Gurgo
- **Nanomaterials based on molecularly imprinted polymers applied for clinical diagnostics with the use of electronic tongue principles** – Manel del Valle & Xavier Cetó
- **Synthesis of functionalized nanomaterials in microreactors and their application in biomedical diagnostics and treatment** – Mar Puyol Bosch & Julian Alonso Chamarro



- **Study of gravitational waves using LIGO-Virgo and technology development and physics prospects for the Einstein Telescope** – Mario Martinez
- **Study of gravitational waves using LIGO-Virgo and ET data with sophisticated algorithms including deep learning** – Mario Martinez

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