



We are excited to announce MATRIX-CM Call for Applications.

**MATRIX-CM** (Matter in Action with UITRafast OptIcal and X-ray Lasers – Comunidad de Madrid) is an innovative initiative, under the Technologies 2024 Programme of Community of Madrid (Spain), bringing together 7 research groups in different Madrid region institutions (Universidad Complutense de Madrid-UCM, Universidad Autónoma de Madrid-UAM, Consejo Superior de Investigaciones Científicas-CSIC, and IMDEA Nanoscience) around **ultrafast science and technology to study matter in action**. As part of this programme, up to **7 PhD positions** are offered starting in summer-autumn 2025. This presents a unique opportunity to engage in cutting-edge research on ultrafast lasers and their applications with a strong international component.

The PhD positions offered are:

- Tracking structural dynamics in condensed phase matter systems using advanced X-ray laser techniques. IMDEA Nanoscience. Contact: Wojciech Gawelda (wojciech.gawelda@imdea.org).
- **Studying electron-vibration coupling effects in photosystems**. IMDEA Nanoscience. Contact: Sara H. Mejías (<u>sara.hernandez@imdea.org</u>).
- High-performance computing for attochemistry: electron dynamics induced by ultrashort pulses. UAM. Contact: Alicia Palacios (alicia.palacios@uam.es).
- *Ultrafast optical and X-ray spectroscopy of metal-metal bonded complexes*. UAM. Contact: María E. Corrales (<u>maria.corrales@uam.es</u>).
- Ultrafast gas-phase photodynamics in polyatomic molecules using femtosecond and attosecond pulses. UCM. Contact: Sonia Marggi Poullain (<a href="mailto:smarggi@ucm.es">smarggi@ucm.es</a>).
- Ultrafast laser-induced phase transformation dynamics in semiconductors and nanomaterials. CSIC. Contact: Jan Siegel (<u>i.siegel@csic.es</u>).
- Tunable vacuum ultraviolet/extreme ultraviolet radiation for molecular and condensed matter studies. CSIC. Contact: Esther Rebollar (e.rebollar@csic.es).

All the details about the PhD positions offered can be found in the following link: <a href="https://drive.google.com/drive/folders/156h4AeCKDQ-7C5ACryRAe1Zq2BWGphxG?usp=sharing">https://drive.google.com/drive/folders/156h4AeCKDQ-7C5ACryRAe1Zq2BWGphxG?usp=sharing</a>

Thank you in advance for your support in promoting this exciting opportunity! On behalf of the MATRIX-CM consortium.

Luis Bañares Coordinator MATRIX-CM