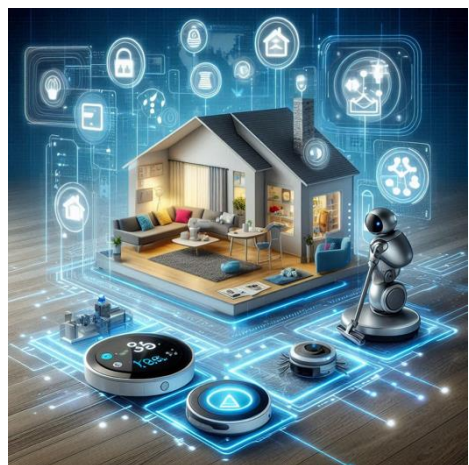


Open Position for 1 PhD Fellowship within the MSCA Doctoral Network project MASAUTO (MAterials for Smarter AUTOnomous sensors) on Perovskite solar cells for sustainably powering IoT electronics.



MISSION: Indoor photovoltaics (IPVs) allows to both power IoT devices and recharge their energy storage units, allowing them to operate while in the dark and obviating the need for replaceable batteries, a convenient solution both economically and environmentally. However, high-efficiency IPV devices are required to perform both these energy-demanding tasks, and the IPV modules currently available have power conversion efficiencies around 10-15%.

The **Doctoral Candidate** will focus on the fabrication of perovskite solar cells based on wide bandgap formulations, and on the optimization of their performances for indoor, low-light, energy harvesting.

Project website: <https://masauto-net.eu/>
Supervisor website: <https://pvsquared2.unipv.it/>

Contact: giulia.grancini@unipv.it
alessandro.mezzetti@unipv.it

Host Institution	Università di Pavia
Supervisor	Prof. Giulia Grancini
Duration	36 months
Starting Date	1 st April 2026
Doctoral Degree	PhD Fellowship in Chemistry
MC Contract	With Living Allowance and Family Allowance

Project-specific Selection Criteria
<ul style="list-style-type: none"> Master's degree in materials engineering, physics, chemistry or a related discipline Good understanding of solid-state chemistry, semiconductor physics, and solar cell operation Experience with solution processable materials and deposition methods, thin-film formation, solar cell fabrication, and electrical and optical characterization methods.
Other Criteria
<ul style="list-style-type: none"> Highly proficient English language skills. Willingness to work collaboratively in a research environment. Strong commitment to his/her own continuous professional development Willingness to travel and work across Europe.