

# Université Claude Bernard Lyon 1- Hosting offer for a MSCA Post-doctoral fellowship candidate in **Physics and mechanics of thin sheets**

<b>Host Organisation</b>	<b>Université Claude Bernard Lyon 1</b>
<b>Department</b>	<b>Physics</b>
<b>Laboratory</b>	<b>iLM</b>
<b>Website (lab / research team)</b>	<b><a href="https://ilm.univ-lyon1.fr">https://ilm.univ-lyon1.fr</a></b>
<b>Supervisor Contact name</b>	<b>Vincent Démery</b>
<b>Supervisor Contact email</b>	<b>vincent.demery@univ-lyon1.fr</b>

## **Host Organisation**

The Université Claude Bernard Lyon 1 welcomes Marie Skłodowska Curie Postdoctoral Fellowships applications !

With 62 laboratories and more than 7000 publications per year, and leading French university in terms of the number of patents filed in collaboration with industry, Lyon 1 contributes to scientific and innovation progress in numerous fields: health, mathematics, IT, physics, chemistry, earth and space sciences, life sciences, etc. Creator of emerging knowledge and new technologies, the University is consolidating its research excellence on a global and international level by developing inter- and multidisciplinary approaches targeting the major challenges facing today society.

## **Host research lab/team**

The Institut Lumière Matière (iLM) is a leading research lab in Europe in advanced materials and optics, complex matter and out-of-equilibrium systems, nanosciences, optics, dilute media, and ultrafast processes, theory and modeling, and life sciences, health, and the environment.

The research team Modeling of Condensed Matter and Interfaces (MMCI) develops models of condensed matter and interfaces, at all scales from atoms to materials and samples, with numerical and analytical methods. Its activity combines model development and comparison to experiments along three axes: out-of-equilibrium interfaces, plasticity and failure, light and transport.

## **Hosting Offer**

The **iLM** offers to host a MSCA Postdoctoral Fellowship candidate (typically a post-doc of less than 8 years research experience since PhD defence), submitting an application to the next MSCA-2026-PF call for proposals (deadline 09<sup>th</sup> of September 2026), interested to work on the mechanics of thin elastic sheets along the following lines:

- Understanding the global response of thin sheets or shells at curved interfaces and potentially the evolution of fractures.
- Using conservation laws of nonlinear elasticities to understand the core of conical singularities in terms of shape and stress.

The fellowship could last for 12 to 36 months, depending on the type of Postdoctoral Fellowship.

## **Supervision**

The successful Marie-Curie Post-doctoral fellow will be supervised by Vincent Démery, in collaboration with Mokhtar Adda-Bedia (Laboratoire de Physique, ENS de Lyon). His research interests include the mechanics of thin sheets and out-of-equilibrium statistical mechanics in driven systems and active matter.

## **Application process**

Interested candidates are invited to contact us exclusively by email at [vincent.demery@univ-lyon1.fr](mailto:vincent.demery@univ-lyon1.fr).

Make sure that you include the reference to this offer in the title of your email. Please attach a CV, a motivation letter, your MSc marks, **as well as a 1 page research proposal**.

## **Professional grant application support:**

Candidates will receive the support of the supervisors, as well as online training from a professional grant application company, and advices from successful applicants, to prepare and submit their application with the xxx as a host laboratory, to the next MSCA-PF call for proposals.

