

DOCTORAL STUDENT IN ACTIVE MATTER

Applications are invited for a 36-month PhD Studentship (Early Stage Researcher) fully funded by the H2020 MarieSkłodowska-Curie Action and available from January 2020.

The successful candidate will be based and registered as a PhD student at CECAM (www.cecam.org), in EPFL, Switzerland. The work will be developed under the scientific guidance of Professor Ignacio Pagonabarraga. **The proposed project** deals with modelling, statistical theory and simulation of nanoscale active particles to identify and understand non-equilibrium patterns emerging in disordered and responsive environments.

Strong interactions and exchange visits with the other EU network partners are part of the project. As member of ITN, the student will also have access to a broad range of academic and transferrable skills programs. The host institution offers world-class research facilities in a diverse and stimulating environment.

The **ActiveMatter Consortium** aims at training a new generation of physicists and engineers with the scientific insight and managerial skills to harness active matter at mesoscopic and nanoscopic length-scales and to exploit it in high-impact applications (e.g. the design and fabrication of biomimetic materials, the targeted localization, pick-up and transport of nanoscopic cargoes, drug delivery, bioremediation and chemical sensing). The successful candidate will also go on secondments (lasting 1 to 3 months) to other partners of the **Active Matter Consortium**.

We are seeking motivated and talented students with a background in physics. Prior experience with soft matter and statistical physics is a plus. Expertise in active matter and computational physics is highly desirable. The networking language of the group is English. We foster diversity and encourage applications from students of all backgrounds. The admission of the ESR as a doctoral student will follow the standard admission rules of EPFL.

The successful candidate must demonstrate eligibility according to the Marie Skłodowska-Curie Actions eligibility requirements as an Early-Stage Researcher (ESR). Moreover, the applicant must be in the first four years (full-time equivalent research experience) of his/her research career and have not been awarded a doctoral degree. The applicant can be of any nationality but should not have resided in Switzerland for more than 12 months in the 3 years immediately prior to the reference starting date.

Your contact person in case of questions is Prof. Ignacio Pagonabarraga; email: ignacio.pagonabarraga@epfl.ch. Please submit your application documents (letter of motivation, CV, diplomas and contact details of 2 referees) by email (one PDF file).