Job Opportunities in INFLANET in the fields of Mathematics, Statistical physics, Modelling and Computer sciences.

A Marie Skłodowska-Curie Innovative Training Network

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Inflammation is a natural and protective response of the immune system to injury or infection. However, excessive or chronic inflammatory reactions can do severe damage to tissues. Understanding inflammatory processes and developing new therapeutic solutions for inflammatory diseases requires a collaborative interdisciplinary and intersectorial effort. INFLANET is a Marie Skłodowska-Curie Innovative Training Network funded by the European Commission Horizon2020 programme and focused on the training of European experts of inflammation. The network consists of participants from academia and the private sector who have joined forces to educate the next generation of inflammation experts. These new experts will be able to master all the necessary concepts and experimental designs to understand the underlying genetic, molecular and cellular events to the physiological processes in inflamed tissues. INFLANET focuses on human data and on vertebrate models (zebrafish, mouse) to provide an integrated training. Moreover, the project applies recently established embryo-based inflammation models that provide new solutions for biomedical research and drug screening. The project will run for 4 years, starting 1 March 2021.

The INFLANET network will employ 15 Early-Stage Researchers (ESRs/PhD students) in 6 European countries. Research topics, host institutes and responsible supervisors (who can be contacted for further information) are listed below. The ESRs will be offered an interdisciplinary education programme that includes a PhD trajectory with training-through-research in individual projects, secondments at research groups of other network partners, and a variety of local and network-wide courses and workshops.

ESR	Research Topic	Host Institute	Supervisor contact
ESR5	Image processing and analysis of inflammation videos (Mathematics)	STUBA, Slovakia	Prod. Dr. K. Mikula, karol.mikula@gmail.com
ESR6	Computer simulations of spatio-temporal processes during inflammation (Statistical Physics, Computer science)	University of Eotvos, Hungary,	Prof.dr T. Vicsek vicsekt@gmail.com
ESR13	Efficient software solutions for image processing and quantitative analysis in nuclear medicine (Computer sciences)	TatraMed Software s. r. o., Slovakia	Dr. J. Urban jozef.urban@tatramed.sk
ESR14	Design and implementation of workflow tools for multiplexed time-lapse imaging experiments in zebrafish screening (Computer sciences)	Acquifer Imaging GmbH, Germany	Dr. J. Gehrig j.gehrig@acquifer.de

Applicants should hold a degree in biology, biophysics, mathematics or biomedical sciences and must comply with the eligibility criteria and trans-national mobility rules for Marie Skłodowska-Curie Innovative Training Networks:

- **Early-stage researchers (ESRs)** will be appointed for 3 years and will register for a PhD at their host organization or a university that is involved as partner organisation. At the time of recruitment by the host organization, they shall be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.
- **Full-Time Equivalent Research Experience** is measured from the date when the researcher obtained the degree entitling him/her to embark on a doctorate (either in the country in which the degree was obtained or in the country in which the researcher is recruited or seconded), even if a doctorate was never started or envisaged.
- **Trans-national mobility** (i.e. move from one country to another) is an essential requirement of Marie Skłodowska-Curie Innovative Training Networks. Researchers can be of any nationality. At the time of recruitment by the host organisation, researchers must not have resided or carried out their main activity (work, studies, etc) in the country of their host organisation for more than 12 months in the 3 years immediately before the reference date. Compulsory national service and/or short stays such as holidays are not taken into account. Applicants must also be prepared to be seconded for short periods (from several weeks up to maximally 30% of the recruitment period) to other network partners to carry out part of their research work.

All ESRs recruited in the context of **INFLANET** will be employed at their host institute by a contract with full social security coverage. They will receive a gross salary augmented by a mobility allowance in line with the EC rules for Marie Skłodowska-Curie grant holders. Candidates will be selected based on their educational background, research experience, fluency in spoken and written English, and motivation to take part in and contribute to the research and training programme of the **INFLANET** consortium. We aim for all ESRs to be recruited by September 2021. Applications - in English - should include a cover letter, curriculum vitae, certificates of examination results, and two reference letters, which are all to be submitted through an on-line application system at https://inflanet.application.systems where further details of the projects can also be found. INFLANET strives to recruit between 40-60% female researchers.