

PhD Student (project 11)

## **Image Processing / Computer Science**

Andor - Belfast

The position is part of the EU-funded Marie Skłodowska-Curie Innovative Training Network InCeM (Integrated Component Cycling in Epithelial Cell Motility). InCeM is focused on cell migration, which is essential for vital processes such as tissue formation, wound healing and tissue invasion during carcinogenesis. It aims to visualise morphological, biochemical and physical processes of cell motility to integrate these data into multi-scale models with the goal to deliberately tune motile behavior in relation to disease. InCeM provides an international and highly interdisciplinary framework of collaborators from academia and industry with core expertise in medicine, biology, biochemistry, image analysis, modelling and engineering.

The topic of this subproject is "Speckle analysis of actin and keratin filament dynamics". The project will be carried out at Andor Technology Ltd in Belfast, UK in collaboration with the InCeM consortium. Within this project we will develop image analysis methods to analyze speckle-microscopy images of actin and keratin networks and to study the dynamics of these networks. We will closely collaborate with the imaging experts to achieve reliable measurements of processes that are at the limit of resolution of optical microscopy.

Within this project you will gain experience in image processing, microscopy systems, software development and mathematical modelling. You will be exposed to both industrial and academic cutting-edge knowledge and research and you will be collaborating with partner laboratories of InCeM across Europe.

We are therefore looking for an outstanding candidate from outside the UK who holds a first class or distinction at Masters level in computer science, mathematics or physics. We will recruit a motivated individual who is eager to join an exciting team to pursue this project toward a PhD degree.

Applications are invited for PhD student fellowships to start in spring/early summer 2015. The fellows should not have resided or carried out their main activity (work, studies, etc.) in the country of the host partner for more than 12 months in the 3 years immediately prior to the reference date.

Salary details see [incem.rwth-aachen.de/salary.html](http://incem.rwth-aachen.de/salary.html).

Application deadline: Applications should be submitted immediately.

Please send your application to:

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