

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) invites applications for the following vacancy **in Heidelberg, Germany**

POSTDOCTORAL FELLOWSHIP: 3-D LIGHT SHEET BASED MICROSCOPY

Job Description:

How are independently recorded data combined into a single data set? How do we take advantage of the actual number of fluorophores in a sample? Where are the limits to spatial resolution and temporal precision in the observation of model embryos? Can we achieve sufficient sub-cellular resolution to transit from cell based assays to tissue based assays? Does it make sense to ignore the effects of photo-bleaching? If you wish to address these or similar questions then a postdoctoral fellow position is available immediately for a highly motivated individual with a background in applied mathematics and/or physics. The research project focuses on three-dimensional cell biology with a specific emphasis on developing and applying imaging and manipulation tools such as EMBL's light sheet based microscopes (single plane illumination microscopy, SPIM) and laser-based nanotools (e.g. cutter, tweezers, FRAP). The project is part of the QuantPro network of research projects, which also involves the groups of Peer Bork (Heidelberg) and Marino Zerial (Dresden).

The successful applicant will have the opportunity to work in a dynamic environment and collaborate with experienced cell biologists as well as physicists. The applicant is expected to integrate into an interdisciplinary team.

Qualifications and experience:

Applicants must hold a Ph.D. in a related field (e.g. Physics, Engineering, Mathematics, Bioinformatics, Biology or Biophysics). Knowledge or experience with image/signal processing, modern programming languages and fluorescence microscopy is appreciated. The applicant should have authored or co-authored publications in peer reviewed journals. The candidate must be able to communicate well in English as he/she will attend regular meetings, will be required to coordinate experiments with colleagues, and of course contribute personally to our publications.

Website: <http://www.embl.org>

Contract: A contract of one year's duration will be offered to the successful candidate, with a possibility of extension up to a total of three years.

Closing Date: 28 May 2007

To be considered, please send the the following materials to application@embl.de, quoting VN/07/PD/03 in the subject line: (i) Vita with a complete list of publications, (ii) names and contact information for at least two references, and (iii) a brief summary of previous/current research and future research interests. Please note that EMBL does not return CVs or attached documents to applicants.

General enquiries may be sent to jobs@embl.de or to the following address:

EMBL Personnel Postfach 10.2209, D-69012 Heidelberg, Germany Fax: +49 6221 387 555