



## JOB VACANCY

### Doctoral Fellowship: Functional Morphology and Occlusal Pattern Analysis of Hominid Teeth

In the framework of the EU-Project "European Virtual Anthropology Network (EVAN)" the Department of Palaeoanthropology and Quaternary Palaeontology of the Research Institute Senckenberg in Frankfurt a. M. invites applications for an early stage researcher Marie Curie fellowship in the field of functional morphology and occlusal pattern analysis of hominid teeth. The position is dedicated to studies in dental palaeoanthropology, virtual modelling, reconstruction, and to the development of methods and techniques in occlusal analysis.

As a doctoral research project the fellowship is integrated in the interdisciplinary Workgroup for Dental Anthropology Studies in the Research Institute Senckenberg. The position has a strong need for transfer of knowledge to partner institutions and to students. The 3D-Laboratory in the Department is known for its pioneering work on the application of optical 3D-topometry and digital analysis of tooth wear.

Applicants should hold a M.Sc. university (or comparable) degree, with formal professional training in one or more of the following areas: vertebrate palaeontology, palaeoanthropology, functional morphology, biomechanics, 3D-data processing, digital image analysis, multivariate statistics in natural sciences.

The fellow will work in the following topics:

- 1) Parameter catalogue for dental wear pattern and function analysis
- 2) Applied GMM for tooth crown and dental analysis
- 3) Standard protocol for surface 3D-data processing
- 4) Extended concept of dental wear and functional analysis for prosthetics and orthodontics
- 5) Virtual simulation of occlusion and function of teeth
- 6) Program for tooth surface investigation
- 7) Publications of EVAN output
- 8) EVAN workshop on tooth evolution and function
- 9) Temporary exhibition on EVAN in the Senckenberg Museum Frankfurt (Germany)

According to EU regulations for the appointment of an Early Stage Researcher the M.Sc. or equivalent access to doctoral studies may not date back more than 4 years and the applicants must hold a citizenship others than German.

EU funding for a temporary EVAN fellow position, including Living allowance ~ € 2642/month (including employers contribution) + travel allowance between € 250,- and 2500,- per year (depending on distance) + mobility allowance per month € 519,- or € 830,4 (single or married) + career exploration allowances € 2000,- once after one year and participation expenses max. € 400,- per month will be available for 36 months, scheduled to begin in July 2006. Applications should include cover letter, curriculum vitae, list of publications, reprints of selected publications, short statements of research experience and interests. We particularly encourage women to participate in this application.

Deadline for applications is 31/05/2006.

They should be addressed to: Dr. Ottmar Kullmer, Palaeoanthropology, Research Institute Senckenberg, Senckenberganlage 25, 60325 Frankfurt am Main, Germany

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