

**Post-doctoral position:
Image analysis and brain magnetic resonance imaging**

Behavioral & Reproductive Physiology
INRA/CNRS/University of Tours, Nouzilly

A post-doctoral position is available in the group of Dr Matthieu Keller at the laboratory for Behavioral & Reproductive Physiology which is located in Nouzilly, near Tours, France (http://www6.val-de-loire.inra.fr/physiologie_reproduction_comportements). The position is dedicated to MRI image analysis in small (rats) and large (sheep) animal models. The project aims to compare morphometric changes according to the reproductive cycle (virgin, early and late gestation, post-partum). The laboratory is equipped with all state of the art imaging facilities for large animals (CIRE platform: <http://www6.val-de-loire.inra.fr/cire>) including a 3T-MRI and a CT scan.

The position is initially for one year but extension up to 3 years in total is possible.

An extensive knowledge and experience in image analysis and programming (C++, FSL, Matlab, Freesurfer, Linux, Perl...) but also in image acquisition in various MRI modalities (anatomy, DTI, fMRI...) is mandatory. Experience in neuroscience and physiology and/or large animal models will be an added value.

Salary will be according to experience.

The laboratory is located in Nouzilly near Tours in the heart of the Loire Valley. Tours, is a pleasant city well connected to Paris (1h by high speed train) or Bordeaux (2h from mid 2017 by high speed train).

Ideally the position will start end of October 2016.

Only candidates with a very high motivation will be selected.

Interested candidates should include a statement of interest along with a CV and 2 letters of reference to Dr Matthieu Keller by email (mkeller@tours.inra.fr).

References:

- ELLA A. & KELLER M. (2015). Construction of a MRI 3D high resolution sheep brain template. *Magnetic Resonance Imaging*, 33, 10, 1329-1337.
- ELLA A., DELGADILLO J.A., CHEMINEAU P. & KELLER M. (2016). Computation of a MRI high resolution 3D stereotaxic atlas of the sheep brain. *The Journal of Comparative Neurology*, in press.
- ELLA A., DELGADILLO J.A., ADRIAENSSEN H., CHEMINEAU P. & KELLER M. (2016). Delineation of subthalamic nuclei on 3D high resolution MRI templates of in-vivo sheep brains. 33rd annual meeting of the European Society for Magnetic Resonance in Medicine & Biology, September 29- October 1, Vienna, Austria.