



February-June 2013 Stage Offer

The von Karman Institute (VKI) is a non-profit international educational and scientific organisation active in the domain of Aerospace, Turbomachinery and Environmental and Applied Fluid Dynamics. Its labs are using equipments of all types, from dedicated experimental instruments to High Performance Computing Clusters.

The working environment is an international one, with students and researchers coming from different world countries. The institute is located in the outskirts of Brussels and easily reachable by bike or public transport.

Offer on Koha ILS (Integrated Library System)

Until recent years the VKI was using the ISIS software package developed by UNESCO (http://en.wikipedia.org/wiki/CDS_ISIS). Due to the obsolescence of this software, a preliminary migration to a modern ILS system was conducted some time ago (Koha ver. 3.X). The proposal of this stage is based on this preliminary work conducted in house and has as objective to:

- *) Migrate the ILS from Koha ver 3.X to 4.X (<http://www.koha.org>)
- *) Integrate Koha with the surveillance system to gather photos and personal details of the borrower (coding needed)
- *) Integrate Koha with the Active Directory for Authentication
- *) Configure correctly Koha to use the Z39.50 protocol for remote database access
- *) Integrate Koha with a EM4102 badge reader to use security RFID access badges as authentication (coding needed)
- *) Manipulate the original database imported from ISIS and the changes introduced by the new Koha (coding needed)
- *) Integrate Koha with a storage server for storing PDF of articles

Working Environment

The VKI can provide technical guidance on the base of the preliminary work conducted and all the technical aspects of cataloging (UNIMARC records, fields, etc. etc.). The student will work in a team of dedicated ICT professionals and librarians, and will be followed actively and constantly. English spoken and written knowledge is a plus.

Prerequisites

LAMP (Linux, Apache, Mysql, PHP) knowledge is a must, as well as good PERL scripts (Koha and Z39.50). Database skills are important as well as scripting skills for the eventual database records manipulation and correction. For the badge reader integration windows programming skills are needed (.NET or COM).