

## **PhD Position in medical data analysis, (medical informatics, Geneva University and Hospitals)**

Applications are invited for a position as a PhD candidate in the Medical Informatics Service, University and University Hospitals of Geneva, Switzerland. The successful applicant will join a team of researchers working on algorithms, data structures and representations of medical knowledge using structured and unstructured data as well as on infrastructures for efficient computing. The position is in the EU project aneurIST on the use of various data sources for detecting the risk of aneurism and for treating aneurisms in the best possible way. The successful candidate will work on the extraction of data from existing information systems and treat important problems such as the anonymization of collected data for the use in a research project. Further work will include the use of the extracted information sources for case-based information retrieval using various resources of structure and unstructured data including images. Part of the work will also include infrastructures for data dissemination using web services and computing infrastructures such as grid networks.

The candidate is expected to have a Masters/Diploma degree in computer science or a closely related field, and to have knowledge in the field of medical informatics and more precisely clinical information systems.

The expertise and experience of the ideal applicant should fit the following profile in decreasing order of importance:

- Knowledge on medical information systems;
- Knowledge on communication standards in the medical domain (DICOM, HL7, ...);
- Programming knowledge in Java;
- Knowledge on computer infrastructures for efficient computing such as grid computing.

Good experience in software development using mainly Java is strongly demanded.

Applications should include a letter of motivation, a curriculum vitae, and names and addresses of three referees. Applications by email are welcome. If sufficient interest develops then referees will be contacted to ascertain suitability for the position.

For more information on the project or the application process please contact: [henning.mueller@sim.hcuge.ch](mailto:henning.mueller@sim.hcuge.ch)

### **LANGUAGE:**

Good knowledge of either French or English is mandatory. French is the spoken language in Geneva so some knowledge of French is beneficial. The candidate should be willing to learn some French.

### **ENVIRONMENT:**

- o Medical Informatics Service: <http://www.sim.hcuge.ch/>
- o University of Geneva: <http://www.unige.ch/>
- o City of Geneva: <http://www.geneva-city.ch/>
- o French Alps: <http://www.skifrance.fr/>
- o Canton of Valais and the high Swiss Alps (1.5 hours away)
- o Central location in Europe:

Traveling by train to Paris takes 3.5 hrs, Milano 4 hrs, and Zurich 3 hrs.

The French border is never far away.

The city is major centre for international organizations, such as UN and Red Cross, so transport links are excellent.

### **SALARY:**

Geneva is a relatively expensive place, but the salary of a PhD student permits to cover all living costs easily.

### **DURATION:**

The position is expected to start in January 2006, or as soon as possible afterwards.

Salary is guaranteed for 4 years.

### **APPLICATION:**

Please send applications to:

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