Reference: IBI-TM-2

Job description: A position on Clinical Text Mining is available for a highly motivated researcher in the Integrative Biomedical Informatics (IBI) group led by Ferran Sanz and Laura I. Furlong at GRIB (IMIM-UPF) in Barcelona.

General description

The successful candidate will develop a text mining pipeline for clinical records, based on the Electronic Health Record database of our institution. The candidate will work in close collaboration with other members of the group in a variety of interdisciplinary projects in the areas of translational bioinformatics, in which text mining is applied. The candidate will also be in charge of the management and update of the clinical records database.

Desired Skills and Expertise

Required

- University degree in informatics, medical informatics, bioinformatics, computational linguistic, language engineering or related area
- Strong programming skills in Java
- Expertise in database development and management (relational and noSQL)
- Good English communication skills
- Strong interpersonal skills
- Ability to work in a multidisciplinary environment

Desirable

- Strong programming skills in Python, Perl, C
- Experience in text mining/Natural Language Processing
- Experience in text mining in clinical records
- Experience in text mining in Spain's official languages, in particular Spanish and Catalan
- Expertise on development of text mining pipelines using GATE or UIMA
- Experience in working with biomedical ontologies and controlled vocabularies
- Knowledge on data mining techniques
- Good programming skills in R

The IBI group is an international research group with interdisciplinary expertise in biology, medicine, pharmacology, chemistry, psycology and informatics. It has a unique experience in the fields of network medicine and biomedical text mining. Recent

achievements include: i) development of the DisGeNET and PsyGeNET knowledge platforms, ii) development and application of biocuration approaches, iii) development of network biology approaches to study the mechanisms leading to adverse drug reactions and disease comorbidities, iv) semantic web approaches for life sciences, v) strategies for the reuse of clinical data in biomedical research, and vi) participation in international projects in the aforementioned fields (EMIF, eTOX, Open PHACTS, MedBioinformatics, iPiE).

To apply: Please send a CV, letter of interest and the contact information for 2-3 referees by email to chus.donlo@upf.edu. Reference: IBI-TM-2.

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