

## **3 VACANCIES FOR RESEARCHERS IN BIOMEDICAL TEXT MINING**

- 1 Post-doc researcher Text Mining (4 years)
- 1 Post-doc researcher Molecular Biology (4 years)
- 1 Ph.D. researcher Text Mining (4 years)

**Application deadline: September 15, 2007**

The positions, funded by the University of Antwerp Research Council in the BOF-GOA programme, are available in the context of an interdisciplinary project bringing together top research groups in molecular genetics, text mining and data mining. The aim of the project is to develop text and data mining technology for extracting useful information from the vast amount of data available in heterogeneous knowledge bases. The primary application is in gene prioritization and hypothesis building. Using text and data mining, facts will be extracted from the biomedical literature but also from semi-structured or structured databases on diseases, pathways, domains and sequences. A secondary goal of the project is to transfer the developed technology to other knowledge management applications.

### **Vacancy 1: Post-doc researcher Text Mining**

We are looking for an enthusiastic researcher with a PhD in computational linguistics, computer science or a related area, with an interest in biomedical text mining. The scientist will join the CNTS computational linguistics research group (University of Antwerp) and work in close cooperation with researchers from the department of Molecular Genetics and ADReM (data mining), also located at the University of Antwerp. Your task will be to develop advanced text mining techniques and apply them in the biomedical domain and in knowledge management applications in general. The position is for four years, fulltime.

#### **Profile**

- You have a PhD in Computational Linguistics, Artificial Intelligence, Computer Science or a related area
- You preferably have a strong track record and experience in statistical or machine learning approaches to natural language processing
- You have excellent programming skills and a good command of spoken and written English
- You know how to do fundamental research, but you also like creating natural language processing software
- You are a team player and you like to coach students and junior researchers

#### **Information**

For more background information on this vacancy, please contact Walter Daelemans via email ([Walter.Daelemans@ua.ac.be](mailto:Walter.Daelemans@ua.ac.be)) or phone (+32.3.8202766).

### **Vacancy 2: Post-doc researcher Molecular Biology**

We seek a motivated scientist with a strong background in the molecular biology of disease and an interest in informatics. The scientist will join the Applied Molecular Genomics Group of the VIB Department of Molecular Genetics (University of Antwerp) in close cooperation with researchers from CNTS (text mining) and ADReM (data mining), also located at the University of Antwerp. The term of the position is 4 years starting in October 1, 2007.

### **Profile**

- You have a university degree in Sciences (Biology / Biochemistry / Biotechnology / Bioinformatics)
- You have several years experience in life science research, and are well-versed in the genetic and functional aspects of disease.
- You are well acquainted with on-line databases such as Pubmed, OMIM, KEGG, GO. Excellent knowledge of data/literature mining is a plus.
- You have an interest in and affinity for informatics. Programming (scripting) and bioinformatics experience are a plus.

### **Information**

For more background information on this vacancy, please contact Jurgen Del-Favero via email ([jurgen.delfavero@ua.ac.be](mailto:jurgen.delfavero@ua.ac.be)) or phone (+32.3.2651032).

### **Vacancy 3: PhD researcher Text Mining**

We are looking for an enthusiastic researcher with an MA degree in (computational) linguistics, computer science or a related area, with an interest in computational linguistics and text mining. The junior researcher will join the CNTS computational linguistics research group (University of Antwerp) and work in close cooperation with researchers from the department of Molecular Genetics and ADReM (data mining), also located at the University of Antwerp. Your task will be to develop innovative text mining techniques and apply them in the biomedical domain. The position is for four years, fulltime, and should result in a PhD in the area of computational linguistics.

### **Profile**

- You have an MA in Computational Linguistics, Artificial Intelligence, Computer Science or a related area
- You have an interest in computational linguistics and text mining, especially statistical or machine learning approaches
- You have excellent programming skills and a good command of spoken and written English

### **Information**

For more background information on this vacancy, please contact Walter Daelemans via email ([Walter.Daelemans@ua.ac.be](mailto:Walter.Daelemans@ua.ac.be)) or phone (+32.3.8202766).

### **Terms of employment**

Selected candidates starts with a full-time contract for one year, concluded by an evaluation. Upon a positive outcome of the first-year evaluation, the candidate will be offered an employment contract for

the remaining three years.

The postdocs will be ranked in the Belgian university job ranking system as a “doctor-assistant” with a starting salary of minimally EUR 3392 gross per month (or higher depending on number of years of experience).

The PhD will be ranked according to the Dehousse PhD bursary system with a salary between 1270 and 1590 net per month depending on experience.

## **Applications**

For more background information on this interdisciplinary project, please contact Walter Daelemans via email ([Walter.Daelemans@ua.ac.be](mailto:Walter.Daelemans@ua.ac.be)) or phone (+32.3.8202766).

Applications should include cover letter and CV. Applications should be sent before the application deadline of September 15, 2007, by e-mail to Walter Daelemans.

## **The University of Antwerp**

The University of Antwerp (UA) is characterized by its high standards in education, internationally competitive research and entrepreneurial approach. It was founded in 2003 after the merger of the three universities that were previously known as RUCA, UFSIA and UIA, the university's roots go back to 1852. The University of Antwerp has approximately 10.000 students, which makes it the third largest university in Flanders.

The University of Antwerp has faculties in Applied Economics, Arts and Philosophy, Law, Medicine, Pharmaceutical - Veterinary and Biomedical Sciences, Political and Social Sciences and Sciences. The four campuses are situated in the historic city centre and in the green belt to the south of the city.

Websites:

Molecular Biology	<a href="http://www.molgen.ua.ac.be/">http://www.molgen.ua.ac.be/</a>
Text Mining	<a href="http://www.cnts.ua.ac.be/cnts/">http://www.cnts.ua.ac.be/cnts/</a>
Data Mining	<a href="http://www.adrem.ua.ac.be/">http://www.adrem.ua.ac.be/</a>
University of Antwerp	<a href="http://www.ua.ac.be/">http://www.ua.ac.be/</a>