



The Vall d'Hebron Research Institute (VHIR) is a public sector institution that promotes and develops the research, innovation and biosanitary teaching of the Vall d'Hebron University Hospital. Through the excellence of our research, we identify and apply new solutions to the health problems of society and we contribute to spread them around the world.



HR EXCELLENCE IN RESEARCH

In April 2015, the **Vall d'Hebron Research Institute (VHIR)** obtained the recognition of the European Commission **HR Excellence**.

This recognition proves that VHIR endorses the general principles of the European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers (**Charter & Code**).

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## Statistician

### Headache Research Group

The **Headache Clinical and Research Group** is a translational research team centered on the study of migraine and other primary headaches. The understanding of migraine biology is approached by studying human and rodents in a multidisciplinary perspective: neurobiology, epigenetic and metabolomic.

The group performs competitive research in the Migraine Adaptive brain Center (MAB), which is a state-of-the-art facility to do psychophysics and electrophysiological studies and collaborates in the development of new drugs through participation in clinical trials to improve the quality of life of patients with Migraine.

In the **Headache Clinical and Research Group** at VHIR we are looking for a **Statistician** that would join us and be responsible for statistical analysis which will support our research studies in Headache.

### JOB DESCRIPTION

#### Education and qualifications:

##### Required:

- Bachelor's or Master's degree in Statistics, Mathematics, Physics or related fields with a strong focus on quantitative analysis.

#### Experience and knowledge:

##### Required:

- Knowledge in the application of probability theory and statistical inference: descriptive statistics, parametric and non-parametric quantitative statistical tests, tests for nominal data, multivariate analysis, linear and logistic regression models, linear and generalized mixed models, analysis of longitudinal data, power and sample size assessment.
- Good knowledge in statistical programming language R.



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- Fluency in English.
- Excellent communication and collaboration skills.
- Attention to detail.

#### Desired:

- Knowledge in data mining algorithms for both supervised and unsupervised learning (e.g. classification and regression trees, neural networks, support vector machines, k-means clustering, random forests).
- Knowledge in time series analysis.
- Ability to use Python or other programming languages.
- Database SQL query language.

#### Main responsibilities and duties:

- Perform accurate statistical analysis to support research studies in Headache, including data pre-processing, analysis, interpretation of results, visualization and statistical reporting.
- Assist other team members on statistical analysis.
- Provide assistance in survey development and design of studies.
- Contribute to create tools to standardise statistical analysis, visualization and statistical reporting to optimize resources.
- Produce clear, concise and error-free computer programs, ensuring compliance with best coding practices and principles.
- Expected to operate with autonomy and collaboratively with other team members.



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### Labour conditions:

- Full-time/Part-time position: 40h/week.
- Starting date: immediate
- Gross annual salary: 22.823,22 (Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale)
- Contract: temporary/permanent linked to project.

### What can we offer?

- Incorporation to Vall d'Hebron Research Institute (VHIR), a public sector institution that promotes and develops the biomedical research, innovation and teaching at Vall d'Hebron University Hospital (HUVH), the biggest hospital of Barcelona and the largest of Catalan Institute of Health (ICS).
- A scientific environment of excellence, highly dynamic, where high-end biomedical projects are continuously developed.
- Continuous learning and a wide range of responsibilities within a stimulating work environment.
- Personal training opportunities.
- Flexible working hours
- Skillful and social colleagues in a dynamic environment
- Challenging tasks and a wide range of responsibilities
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- Personal training opportunities.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more).
- Annual teambuilding events.



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### How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference 'Statistician– HEADACHE UNIT' to the following email addresses: [patricia.pozo@vhir.org](mailto:patricia.pozo@vhir.org), [anna.la@vhir.org](mailto:anna.la@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org)



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