

JOB DESCRIPTION TEMPLATE

(Euraxess labels)

TITLE (include department or project): Postdoctoral Researcher in Exposome Research

LOCATION : Campus Mar

REPORTS TO : Martine Vrijheid

SEND APPLICATIONS TO: Giulia Pollarolo

PUBLISH ON usual sites: e.g. SOMMA etc

Comentado [GP1]: For HHRR: I will get applications automatically from the emailform synchronized with my Gdrive

Description:

The Barcelona Institute for Global Health (ISGlobal) is a cutting-edge institute addressing global public health challenges through research, translation into policy and education. ISGlobal has a broad portfolio in communicable and non-communicable diseases including environmental and climate determinants, and applies a multidisciplinary scientific approach ranging from the molecular to the population level. Research is organized in the following main areas: Climate, Air Pollution, Nature and Urban Health; Environment and Health over the Lifecourse; Global Viral and Bacterial Infections; Malaria and Neglected Parasitic Diseases; Maternal, Child and Reproductive Health. ISGlobal is accredited with the Severo Ochoa distinction (received the first accreditation in 2019 and renewed it in 2024), a seal of excellence of the Spanish Science Ministry.

What We Are Looking for:

In the framework of our Centre for Excellence Severo Ochoa Programme (CEX2023-001290-S), ISGlobal is seeking a highly motivated postdoctoral researcher to reinforce **exposome research** at ISGlobal, in particular focused on the **integration of (multi-)omics approaches in exposome studies across the life course**. Using the exposome as an overarching framework, the postdoctoral researcher will carry out epidemiological studies to investigate the biomarkers and molecular mechanisms characterising the effects of a range of environmental risk factors (lifestyle, air pollution, chemical toxins, microplastics, urban factors, climate and climate change induced hazards) on health trajectories in childhood and adulthood. Prospective cohort studies, set up as part of our international projects, will be used as the basis for in-depth molecular studies (e.g. metabolome, proteome, microbiome, epigenome, immunome). Unique data resources in European birth, child and adult cohorts are available for this work.

The researcher will be based in the research group of Professor Martine Vrijheid, with co-supervision from other ISGlobal investigators with expertise in exposome research.

This position will be supported by funding from the “Centro de Excelencia Severo Ochoa 2024-2028” Program (CEX 2023-0001290-S) from the Spanish Ministry of Science and Innovation, and the Spanish Research State Agency (MCIN/AEI/10.13039/501100011033).

Field research: (please, highlight the fields that define the position)

Agricultural sciences
Anthropology
Biological sciences
Chemistry
Computer science
Economics
Engineering
Environmental science
Ethics in health sciences
Geosciences
Mathematics
Medical sciences
Neurosciences
Pharmacological sciences
Physics
Sociology
Technology
Other

Is the job funded through a EU Research Framework Programme? (please, highlight the relevant field)*

Digital Europe
European Union / Next Generation EU
Life Programme
Not funded by an EU programme
Interreg
ERASMUS+
H2020 / Marie Skłodowska-Curie Actions COFUND
H2020 / Marie Skłodowska-Curie Actions
FP7 / People-Marie Curie Actions
FP7 / JRC
FP7 / Ideas-ERC
FP7 / People-Marie Curie Actions COFUND
H2020
H2020 / ERC
H2020 / EIT
FP7
HE
HE / ERC
HE / EIC
HE / EIT
HE / MSCA
HE / MSCA COFUND
HE /SME Innovation Associate

TAGS (GENERAL KEYWORDS):

#GlobalHealth, #ExposomeResearch, #Health, #Omics

TRAINING AND EXPERIENCE /QUALIFICATIONS:

- Educated to doctoral level in epidemiology, bioinformatics, biostatistics, or related topics.
- Experience in managing and analysing epidemiological data, with experience in environmental epidemiology an asset
- Experience in molecular epidemiology an asset, specifically related to immunology, microbiome, metabolome data.
- Experience in complex statistical analyses, with proficiency in R software.
- Excellent command of the English language and good writing skills

SPECIFIC REQUIREMENTS:

None

KEY RESPONSIBILITIES¹:

- Develop research projects using the exposome datasets from several exposome-related cohorts spanning the life course, specifically with focus on biomarkers and molecular mechanisms characterising the effects of a range of environmental risk factors on health.
- Analyses linking exposome and omics data with health outcomes
- Writing scientific papers documenting the results
- Assist in coordination of the ISGlobal Exposome Hub (<https://www.isglobal.org/en/exposome-hub>).
- Work with the Severo Ochoa exposome WG to identify opportunities for exposome research in LMICs.

SPECIFIC DUTIES:

¹ **To adapt the post to a Hybrid model: Outcome-focused descriptions.** These articulate the outcomes expected from a role—not the specific tasks or duties the employee would be required to perform. This approach gives employees flexibility to determine the best way to achieve those results.

AUXILIAR TASK

This job description reflects the present requirements of the post but may evolve at any time in the future as duties and responsibilities change and/or develop providing there is appropriate consultation with the post-holder.

This job description is not a definitive or exhaustive list of responsibilities but identifies the key responsibilities and tasks of the post holder. The specific objectives of the post holder will be subject to review as part of the individual professional assessment process.

SKILLS² (serve as a reference)

- Responsible, flexible and with problem solving skills.
- Eager to learn and proactive.
- Excellent writing skills.
- Strong organization and team-working skills
- Effective verbal and written communication skills
- Team player, yet capable of working autonomously, rational and critical thinker

The post holder will adhere to ISGlobal principles contained in **People management policy, including Equity, diversity and health safety**. The post holder will respect, and accountable to ensure ISGlobal policies and procedures .

LANGUAGE LEVEL:

CONDITIONS:

² **We recommend skills-focused descriptions.** These outline the skills and capabilities an employee should bring to the position (or aim to develop). With this approach, the emphasis shifts from required tasks to required talents—and how those talents could be applied in the role.

Team-based descriptions. Instead of focusing on the individual role, these descriptions emphasize the collective responsibilities, objectives, and deliverables of the team, who collectively decides how each member will contribute.

- Duration: 3/3.5 years
- Starting date: as soon as possible
- Contract: full time
- Salary Range: According to experience and profile

HOW TO APPLY:

Applicants must fill in the [request form](#) attach the CV and a Cover Letter describing research interest and plans at ISGlobal. Each attached document must be named with the candidate name and surname.

Comentado [GP2]: For HHRR: please add this link:
<https://www.emailmeform.com/builder/form/X2f81R8Mf3A1u8j378TcQFbP>

The receipt of applications will be open until a candidate is selected.

Only the applications submitted through the request form will be considered.

Only shortlisted candidates will be contacted.

Diverse candidatures are encouraged, that includes: gender, race, ethnicity, religion, age, sexual orientation, physical abilities, and political views.

Please contact giulia.pollarolo@isglobal.org for questions about this position.

SELECTION PROCESS:

The selection process is designed in two phases:

- 1- Interview phase of a technical nature, with the team that requires the incorporation. To assess the person's skills and CV.
- 2 - Meeting with HR with the finalist(s) to finish assessing the profile and discuss contractual and institutional issues.

If needed any technical test could be pass. A Psychological Competency Evaluation Test will be required for the structural or transversal positions.

In accordance with the OTM-R principles, a gender-balanced recruitment panel is formed for every vacancy at the beginning of the process. After reviewing the content of the applications, the panel will start the interviews, with at least one technical and one administrative interview. A profile questionnaire as well as a technical exercise may be required during the process.

In ISGlobal we are committed to maintaining and developing a work environment in which the values and principles of our organization are respected and equal opportunities between women and men be promoted in each of the areas in which we operate, not tolerating discrimination based on criteria such as age, gender, marital status, race, ethnicity, functional diversity, political leanings, religion, sexual orientation, gender identity or gender expression.

ISGlobal supports the initiative [#ScienceforUkraine](#). Therefore, to sustain Ukraine's presence in the European Research Area and international scholarly community, candidates from Ukraine on all levels of scholarly career are welcome: students, PhD candidates, early career researchers and senior scholars.

We confirm our commitment towards the value of the diversity of our staff and student population and seek to promote peace, equity, diversity and inclusion as essential elements in contribution to improving health worldwide.