

# Software Developer (RE2/RE3)

## Job Reference

221\_LS\_INB\_RE2RE3

## Position

Software Developer (RE2/RE3)

## Closing Date

Wednesday, 27 December, 2017

## ABOUT BSC

The Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC-CNS) is the leading supercomputing center in Spain. It houses MareNostrum, one of the most powerful supercomputers in Europe, and is a hosting member of the PRACE European distributed supercomputing infrastructure. The mission of BSC is to research, develop and manage information technologies in order to facilitate scientific progress. BSC combines HPC service provision and R&D into both computer and computational science (life, earth and engineering sciences) under one roof, and currently has over 500 staff from 44 countries.

## CONTEXT AND MISSION

The successful candidate will work in a number of European Projects such as OpenMinted, eTRANSafe and ELIXIR.

OpenMinted aspires to enable the creation of an infrastructure that fosters and facilitates the use of text mining technologies in the scientific publications world, builds on existing text mining tools and platforms, and renders them discoverable and interoperable through appropriate registries and a standards-based interoperability layer, respectively. It supports training of text mining users and developers alike and demonstrates the merits of the approach through several use cases identified by scholars and experts from different scientific areas, ranging from generic scholarly communication to literature related to life sciences, food and agriculture, and social sciences and humanities.

The eTRANSafe (Enhancing TRANslational SAFETY Assessment through Integrative Knowledge Management) project develops an integrative data infrastructure and innovative computational methods and tools that aim to drastically improve the feasibility and reliability of translational safety assessment during the drug development process. This infrastructure will be underpinned by development of open standards and robust policies widely accepted by stakeholders, including regulatory agencies and international organisations.

ELIXIR (European Life Science Infrastructure for Biological Information) is a pan-european organization founded in 2014, which aims to integrate and harmonize European bioinformatics infrastructures. ELIXIR coordinates the participation of more than 20 countries, engages with other strategic european initiatives and projects e.g. ESFRI, Research Data Alliance, EUDat, EGI; promotes specific training activities and workshops on ELIXIR resources, partners with industry, and play a key role in shaping the bioinformatics landscape. Spain is member of ELIXIR since 2015, with the INB as the Spanish national node. Within ELIXIR, the INB is responsible for the bioinformatics infrastructure offered by Spain, and therefore, should guarantee its alignment to the strategic areas put forward by ELIXIR.

## **KEY DUTIES**

Contribute to deliverables and milestones of OpenMinted, eTRANSAFE, and ELIXIR-EXCELERATE

Contribute in the evaluation of tools, services and workflows in the context of ELIXIR-EXCELERATE, and in collaboration with other projects such as eTRANSAFE

Design, implement and deploy databases for a variety of projects

Contribute to supervise other junior members at the INB unit

Work together with other developers to ensure the appropriate implementation of previously agreed standards and methodologies

## **Requirements**

### **EDUCATION**

Software engineering related degrees

### **ESSENTIAL KNOWLEDGE AND PROFESSIONAL EXPERIENCE**

At least 1 year of professional experience with programming languages such as C++, Python and/or Java

At least 1 year of professional experience on visualization techniques

At least 1 year of professional experience on web services back-end technologies

At least 1 year of professional experience on the use of software repositories such as GitHub, BitBucket and/or GitLab

## **ADDITIONAL KNOWLEDGE AND PROFESSIONAL EXPERIENCE**

Familiar with data handling of massive amount of biological sequences

Familiar with software containers technologies such as Dockers and/or Singularity

## **COMPETENCES**

Fluency in English

Good writing and presentation skills

Used to work under pressure under strict deadlines

Strong personal soft-skills sets: Communicative, enthusiastic, highly collaborative, proactive, self-driven

Strong technical writing skills

Large experience working with Unix/Linux system

## **CONDITIONS**

The position will be located at BSC within the Life Sciences Department

We offer a full-time contract, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures

Salary: we offer a competitive salary commensurate with the qualifications and experience of the candidate and according to the cost of living in Barcelona

Starting date: asap

## **APPLICATIONS PROCEDURE**

Application procedure through the website. Ref.220

All applications must include:

A motivation letter with a statement of interest, including two contacts for further references

A full CV including contact details

## **DEADLINE**

The vacancy will remain open until suitable candidate has been hired. Applications will be regularly reviewed and potential candidates will be contacted.

## **DIVERSITY AND EQUAL OPPORTUNITY EMPLOYMENT**

BSC-CNS is an equal opportunity employer committed to diversity and inclusion. We are pleased to consider all qualified applicants for employment without regard to race, colour, religion, sex, sexual orientation, gender identity, national origin, age, disability or any other basis protected by applicable state or local law.