822_24_LS_CB_R4

Job Reference

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Position

Team leader Biomedical AI Applications unit (R4) - AI4S

Data de tancament

Divendres, 29 Novembre, 2024
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Job title: Team leader Biomedical AI Applications unit (R4) - AI4S

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, was a founding and hosting member of the former European HPC infrastructure PRACE (Partnership for Advanced Computing in Europe), and is now hosting entity for EuroHPC JU, the Joint Undertaking that leads large-scale investments and HPC provision in Europe. 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 1000 staff from 60 countries.

Look at the BSC experience:
[BSC-CNS YouTube Channel](#)
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We are particularly interested for this role in the strengths and lived experiences of women and underrepresented groups to help us avoid perpetuating biases and oversights in science and IT research. In instances of equal merit, the incorporation of the under-represented sex will be favoured.

We promote Equity, Diversity and Inclusion, fostering an environment where each and every one of us is appreciated for who we are, regardless of our differences.

If you consider that you do not meet all the requirements, we encourage you to continue applying for the job offer. We value diversity of experiences and skills, and you could bring unique perspectives to our team.

Context And Mission

The BIOMEDAI unit has been dedicated to develop applications in the area biomedicine and healthcare with emphasis on translational developments. This new unit will complement and collaborate with the on-going developments in the BSC's Life Sciences Department, especially on the implementation of methodologies developed by the Department with direct medical applications, working in areas connecting medical information, omics and medical images. The unit requires a strong, proactive leader, well connected at the local and global level, with capacity to lead collaborative projects involving research centres, hospitals and companies, with capacity to attract funding at the national and European level. The successful candidate will manage and guide a team of researchers, developers and students.

The main areas of activity of the unit will include:

• Implementation of AI related methodology in biomedical and healthcare-related projects in direct collaboration with domain experts in hospitals and health systems.
• Collaborate with the groups and initiatives in the department, BSC and global level working in areas such as network biology, dNN and generative systems.
• Support and contribute to the Departments' efforts in handling biomedical data, including FAIR and security issues as well applications related with federated data access and federated learning.
• Collaborate in the Departments' efforts towards a comprehensive evaluation of AI applications in the health sector, with specific consideration on the detection and correction of biases.

The leader of the unit, in collaboration with the department director, will be responsible of the future adaptation of these, and other possible research lines, and their evolution.

The funding for these actions/fellowships and contracts comes from the European Union Recovery and Resilience Facility - Next Generation, within the framework of the General Invitation by the public business entity Red.es to participate in the talent attraction and retention programs within Investment 4 of Component 19 of the Recovery, Transformation, and Resilience Plan.
For more information, please check: https://www.bsc.es/join-us/excellence-career-opportunities/ai4s

"La financiación de estas actuaciones/becas y contratos, procede del Mecanismo de Recuperación y Resiliencia de la Unión Europea-Next Generation, en el marco de la Invitación General de la entidad pública empresarial Red.es para participar en los programas de atracción y retención del talento dentro de la Inversión 4 del Componente 19 del Plan de Recuperación, Transformación y Resiliencia.
Para más información: https://www.bsc.es/join-us/excellence-career-opportunities/ai4s"

Key Duties

- Lead projects, and attract funding, for the adaptation and application of AI/ML technologies to the healthcare sector.
- Lead or collaborate in funded projects and initiatives for the development of standards and guidelines for the application of AI/ML in biomedicine and medicine.
- Proactively collaborate with the Department and BSC in the organization of the activities related with AI/ML, including the organization of data and resources.
- Work coordinately and contribute to the Department initiatives to organise and handle biomedical data, connecting with the Department national and European projects in this area.
- Proactively collaborate in the Department and BSC national and international initiatives in the area of

AI/ML (e.g. TPC consortium), in particular those on the human health space.

- Implement strategies for the best use of the BSC HPC resources in the Unit developments.
- Efficiently manage a team of researchers, technicians, and students, providing a conducive work environment that encourages growth and collaboration.
- Collaborate with the Direction of the Department, and related groups and units, in the development of the Department strategies for the adequate maintenance of biomedical data and the correct implementation of AI/ML applications.
- Represent the Department in different forums when required.

Requirements

- Education
  - Degree in informatics engineering, mathematics, physics
  - PhD in Artificial Intelligence or similar

- Essential Knowledge and Professional Experience
  - Minimum of 5 years' of postdoctoral experience.
  - Experience in coordinating and managing research projects, including the supervision of research staff and students.

- Additional Knowledge and Professional Experience
  - Fluency in English is essential. Proficiency in Spanish and other European languages would be advantageous.

- Competences
  - Ability to work in a team and in a multi-cultural environment.
  - Excellent communication skills.
  - Demonstrated critical judgment in the identification and execution of research activities.

Conditions

- The position will be located at BSC within the Life Sciences Department
- We offer a full-time contract (37.5h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, restaurant tickets, private health insurance
- Duration: 4 years
- Holidays: 23 paid vacation days plus 24th and 31st of December per our collective agreement
- Salary: 80.000,00€
- Additional Expenses Grant: Each fellowship will be associated with a grant for additional expenses, such as IT equipment, travel, training, stays, etc.
- Starting date: asap - the incorporation for this vacancy must be before the 16th of December 2024

Applications procedure and process

All applications must be submitted via the BSC website and contain:

- A full CV in English, including contact details.
- A cover/motivation letter with a statement of interest in English, clearly specifying for which specific area and topics the applicant wishes to be considered. Additionally, two references for further contacts must be included. Applications without this document will not be considered.

Development of the recruitment process

The selection will be carried out through a competitive examination system ("Concurso-Oposición"). The recruitment process consists of two phases:

1. **Curriculum Analysis:** Evaluation of previous experience and/or scientific history, degree, training, and other professional information relevant to the position. - ***40 points***
2. **Interview phase:** The highest-rated candidates at the curriculum level will be invited to the interview phase, conducted by the corresponding department and Human Resources. In this phase, technical competencies, knowledge, skills, and professional experience related to the position, as well as the required personal competencies, will be evaluated. - ***60 points.*** *A minimum of 30 points out of 60 must be obtained to be eligible for the position.*

The recruitment panel will be composed of at least three people, ensuring at least 25% representation of women.

In accordance with OTM-R principles, a gender-balanced recruitment panel is formed for each vacancy at the beginning of the process. After reviewing the content of the applications, the panel will begin the interviews, with at least one technical and one administrative interview. At a minimum, a personality questionnaire as well as a technical exercise will be conducted during the process.

The panel will make a final decision, and all individuals who participated in the interview phase will receive feedback with details on the acceptance or rejection of their profile.

At BSC, we seek continuous improvement in our recruitment processes. For any suggestions or comments/complaints about our recruitment processes, please contact recruitment [at] bsc [dot] es.

For more information, please follow this link.

Deadline

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

OTM-R principles for selection processes

BSC-CNS is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission and the Open, Transparent and Merit-based Recruitment principles (OTM-R). This is applied for any potential candidate in all our processes, for example by creating gender-balanced recruitment panels and recognizing career breaks etc.
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, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or any other basis protected by applicable state or local law.
For more information follow this link

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