CALL 11-2024-1 Researcher Position

Who are we looking for?

The Sustainable Artificial Intelligence research unit is looking for interested candidates in a R2-Researcher permanent position to work with our team in sustainable and low complex machine learning algorithms, energy-aware optimization of distributed systems. Mainly we are looking for skills in machine learning with emphasis on unsupervised learning and clustering; alternatively, experience in random matrix theory is also welcome. However, even if you do not meet this requirement you are encouraged to apply (see the Qualifications and Experience section).

What do we offer? :

- We offer a permanent contract
- Tenure track: Career progression
- Prospect start date: January 2025
- Continuous training, access to lab facilities, state of the art infrastructure and polyvalent working spaces, participation in scientific events and R&D projects, complementary skills development.
- **We have great benefits for employees**:
    - Paid time off: vacation (33 working days per year), holidays, sick and parental leave and more
    - Up to 3 days of Telework per week (2 fixed + 1 upon request). Other requests may be studied to accommodate special needs.
    - Flexible working hours for work-life balance
    - Tax-free optional benefits: restaurant ticket, nursery ticket, transport pass, private health insurance for employees and family.
    - Career path promotion (either professional category and/or annual gross salary)
    - Annual productivity upon performance
    - Possibility to complement the salary with personal grants

Qualifications and Experience

- We are looking for a highly motivated, enthusiastic, energetic person, aiming at significantly improving his or her career perspectives in both public and private sectors. The successful applicant should have the competencies of R2 category.

- **Required qualification/skills/experience:**
  - PhD in Computer Science, Data Science, Telecommunications or related fields (Y/N)
  - knowledge in machine learning theory (10 points)
  - knowledge in random matrix theory (10 points)
  - knowledge in clustering algorithms and unsupervised learning (8 points)

- **Other skills that are valuable, but not mandatory are:**
  - knowledge in Python (pytorch, tensorflow, sionna) and matlab (5 points)
  - participation in EU funded projects (5 points)

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1

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Even if you do not meet all the requirements, we encourage you to apply.

The candidates' past performance but also future potential will be considered as criteria for selecting researchers.

How to apply?

All applications must include:

1. A complete CV, including a list of publications and the contact details of two potential referees
2. PhD degree
3. Cover letter stating the motivation and suitability of the candidate.

The application documents must be submitted in pdf format through this online application.

ONLY APPLICATIONS VIA WEB https://www.cttc.cat/talent/careers/job-openings/ WILL BE TAKEN INTO CONSIDERATION.

CVs and any other information gathered during this process will be handled confidentially

Convocatòria corresponent a l'oferta d'ocupació pública per a l'exercici 2022 (Taxa addcional d'estabilització/ taxa de reposició) publicada al DOGC núm. 8660, de 4 de maig de 2022.

En compliment de la Llei General de Drets de les Persones amb Discapacitat i de la seva Inclusió social s' acorda la reserva de la plaça en un primer torn per ser coberta entre persones amb un grau de discapacitat igual o superior al 30%

Who are we?

- The Center Tecnològic de Telecomunicaciones de Catalunya (CTTC) is a non-profit **public sector** research institution dedicated to fundamental and applied research activities, focused mainly on technologies related to the physical, data link and network layers of communication systems and Geomatics.
- CTTC received the "HR Excellence in Research" award in 2015 from the European Commission and successfully passed into the Award Renewal phase in 2023. This is a recognition of the Institute's commitment to develop a Human Resources Strategy for Researchers (HRS4R), designed to bring the practices and procedures in line with the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Charter and Code). Our institution's comprehensive analysis and HRS4R action plan meet all the requirements of progress and quality of our HR policies. CTTC promotes itself as a provider of a stimulating and favourable work environment for researchers.
- The CTTC is located in the beautiful Mediterranean Technological Park of Castelldefels, a science park that houses the Polytechnic University of Catalonia, research institutions, innovative companies and startups. The PMT-UPC is located 10 minutes' walk from the beach and the city center of Castelldefels, also close

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2

to childcare centers, public schools and the best international schools. It can be reached by car, train (RENFE) and various bus lines.

- We have 2 buildings on campus, with state-of-the-art facilities, comfortable work spaces, meeting rooms, and multipurpose spaces, as well as social spaces.
- The institute has **a multicultural environment** with more than 130 members (scientific, technical and administrative staff) from all over the world.

CTTC offers and promotes a diverse and inclusive environment and welcomes applicants regardless of age, disability, gender, national origin, race, religion, or sexual orientation.

The CTTC seeks to increase the presence of women in those areas where they are underrepresented and therefore explicitly encourages them to stand as candidates.

It is also committed to increasing the number of people with disabilities in its workforce and therefore encourages their applications.

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3

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