

MSCA Postdoctoral Fellowship in AI for Digital Health and Life Sciences

Research Theme Code: RLA-CVC-01

Areas of Application: Digital Health and Well-Being; Life Sciences

Location: Centre de Visió per Computador (CVC-CERCA), Barcelona, Spain

CVC-CERCA invites applications for a fellowship focused on advancing AI applications in Digital Health and Life Sciences. Fellows will work on pioneering projects such as developing AI models for personalized cancer treatment, cyber-physical methods to improve surgical interventions, or innovative solutions for mental health analytics. This position is ideal for candidates with a background in data science, bioinformatics, or digital health technologies who are passionate about integrating AI to make impactful advancements in healthcare.

Key Responsibilities*:

- Design and develop AI models for medical image processing and predictive healthcare.
- Implement multimodal data analysis methods to enhance mental health monitoring and personalized medicine.

Qualifications:

- PhD in Biomedical Engineering, Bioinformatics, Computer Science, or related fields.
- Strong knowledge of AI techniques, including deep learning, multimodal data processing, and predictive modelling.
- Interest in interdisciplinary collaboration at the intersection of technology and healthcare.

* Candidates are not expected to address all these items simultaneously; these represent the broader research directions of the role.



Possible Principal Investigators:

- **Debora Gil** leads projects related to integration of multimodal (images, text, sensors) clinical data for personalized medicine, including intelligent radiomics for early diagnosis, histopathological image analysis for risk prediction and video processing for surgical interventions.

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Keywords: Multi-Diagnostic Systems; Personalized Medicine; Digital Biopsy; Integrative Models; Aggregation Mechanisms; Early Detection of Cancer.

- **Jordi González** leads projects on smart mental health solutions through multimodal data analysis.

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Keywords: Mental Health Analytics; Predictive Modelling; Multimodal Data Analysis; Ethical AI Practices.

