



ICÀRIA CAMPUS
cei EXCEL·LÈNCIA
INTERNACIONAL



**POSTDOCTORAL POSITION AT UNIVERSITAT POMPEU FABRA
(BARCELONA, SPAIN)
DEPARTMENT OF EXPERIMENTAL AND HEALTH SCIENCES (DCEXS)
DEPARTMENT OF ENGINEERING AND INFORMATION AND
COMMUNICATION TECHNOLOGIES (DTIC)**

We are interested in understanding how morphogenesis and cell fate acquisition are intertwined during neurogenesis upon the embryonic development of the Central Nervous System. Our aim is to build an expandable open-source platform to integrate data from labels of molecular gene expression, clonal growth, functional clusters and definitions of anatomical regions: the **digital Z-hindbrain**. This open-access IT resource will help us to expand our knowledge of how the brain is functionally organized, and therefore for advancing brain research, medicine, and brain-inspired information technology.

The fellow will work in collaboration between the two groups: Piella's lab at DTIC (Campus Poble Nou, <https://www.upf.edu/web/simbiosys>), and Pujades' lab at DCEXS (<http://pujadeslab.upf.edu>) that is located within the PRBB, a vibrant research park harboring several research institutions.

CANDIDATE REQUIREMENTS:

We are seeking for highly motivated and enthusiastic candidates with background in biological/medical image analysis and, in particular, in image registration, and spatiotemporal alignment techniques such as statistical atlases. Programming experience is required.

Candidates must have good English communication skills.

The fellowship covers the salary for 1 year, with the possibility of being renewed.

The candidates will benefit from working in two dynamic groups, at university departments that recently received the Maria de Maeztu Award for their scientific excellence.

Interested candidates are encouraged to send a letter of interest, CV, and contact details of 2 referees either to Gemma Piella (gemma.piella@upf.edu) or Cristina Pujades (cristina.pujades@upf.edu).



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Engineering and Information
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Academic Coordination Unit



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Department
of Experimental and Health
Sciences