

PhD Student Positions at the Neuromorphic Group of Sevilla Microelectronics Institute

The Neuromorphic Group (www.imse-cnm.csic.es/neuromorphs) at the Sevilla Microelectronics Institute (IMSE www.imse-cnm.csic.es), is searching for highly motivated PhD student candidates to focus their research in relation to on-going research projects (<http://www2.imse-cnm.csic.es/neuromorphs/index.php/Projects>). We seek candidates with interest in some of the following activities:

Activity 1: microchip (ASIC) analog and mixed-signal design (schematics, simulations, layout, using cadence). Applications may include neuromorphic systems, biomedical systems, memristor based computing systems, deep neural networks, spiking neural networks, or vision sensors. Preliminary experience is a plus, as well as in either “Activity 2 or 3” would be an extra plus.

Activity 2: Digital circuit design (vhdl/verilog), either for FPGA or ASICs, to complement applications of systems in “Activity 1” and corresponding test setups. Preliminary experience is a plus, as well as in either “Activity 1 or 3” would be an extra plus.

Activity 3: Computational (software) interest in Artificial Neural Networks (Keras, Pytorch, TensorFlow, Torch, etc), learning algorithms, benchmarking, etc. with interest in Spiking Neural Networks. Preliminary experience is a plus, as well as in either “Activity 1 or 2” would be an extra plus.

- **Salary:** gross minimum 25k€, negotiable depending on experience.
- **Deadline:** no fixed deadline, but we seek candidates able to start early Autumn 2022 or before.

IMSE is a mixed institute of the Spanish Research Council (www.csic.es) and the University of Sevilla (www.us.es). Successful candidates will have access to facilities and tools of both Institutions.

Interested candidates please submit CV to:

prof. Bernabé Linares-Barranco (bernabe@imse-cnm.csic.es) (www.imse-cnm.csic.es/~bernabe)

