Group of
GAMMA-RAY AND NEUTRON SPECTROSCOPY

A call for a PhD contract is open at IFIC (CSIC- University of Valencia) in the framework of the project NUCLEAR STRUCTURE, ASTROPHYSICS AND KNOWLEDE TRANSFER (PID2022-138297NB-C21). The main topic for this PhD contract will be the measurement of nuclear data at CERN n_TOF of relevance for the slow (s-) process of nucleosynthesis.

The post is based in the Gamma and Neutron Spectroscopy Group (http://webgamma.ific.uv.es/gamma/en/) at IFIC (http://ific.uv.es). The successful candidate will develop his PhD work in advanced instrumentation for gamma-ray detection optimized for its application to the measurement of neutron capture cross sections at CERN n_TOF (Geneva). This experimental work comprises *i)* the design and optimization of the experimental setup by means of computing techniques, *ii)* implementation, validation and calibration of the designed setup at CERN n_TOF, *iii)* realization of the experiment and data taking, *iv)* data-analysis and astrophysical interpretation and *v)* results dissemination at conferences and publications. Developments, data taking and analysis, physics and astrophysics interpretation will be undertaken as full PhD activities.

Post	Forefront research in experimental nuclear physics Competitive salary
Requisites	Master degree Availability to travel Long stays abroad, mainly in Switzerland Good level of English
Skills	Physics studies (nuclear) with good computing background Initiative Good communication skills
For more information send an email to: with Subject:	Dr. C. Domingo-Pardo domingo@ific.uv.es Dr. J. Lerendegui-Marco jorge.lerendegui@ific.uv.es PID2022 PhD application [your family name]

Informal contacts are welcome (domingo@ific.uv.es, jorge.lerendegui@ific.uv.es).