

PhD position in Dark Matter direct searches with the Global Argon Dark Matter Collaboration at CIEMAT (N^o **219-PRECIE-PDI24**)

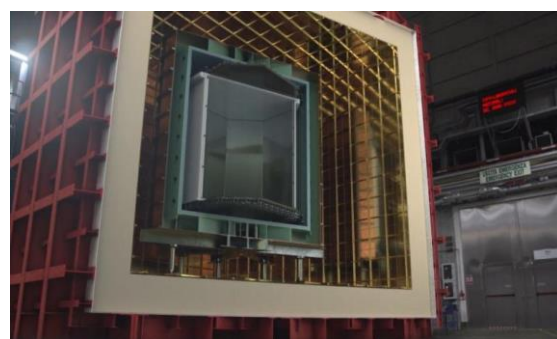
The Dark Matter Research Group of the Particle Research Division and the Nuclear Innovation Unit at CIEMAT (Center for Research in Energy, Environment, and Technology in Madrid, Spain) announces the opening of a predoctoral position for outstanding young M.Sc. graduates interested in working on the *construction and analysis of nuclear physics experiments related to the search for dark matter and nuclear technology* toward a Ph.D. thesis.

The **4-year PhD contract** is funded by CIEMAT. The official call is announced at <https://www.ciemat.es/predoc>.

The investigation of dark matter interactions is one of the fundamental questions in particle physics and cosmology. The CIEMAT Dark Matter Group and the Nuclear Innovation Unit lead pioneering activities in studying nuclear reaction cross-sections crucial for underground physics and low-background experiments. These efforts advance our understanding of particle interactions at the sensitivities necessary for the next generation of low-background experiments.

The proposed work includes the design and analysis of nuclear physics experiments related to dark matter detection and nuclear technology, as well as, Monte Carlo simulations of radiation detectors and experiments in nuclear and astroparticle physics.

We are looking for highly motivated candidates who will contribute to both the theoretical and experimental aspects of this research. The selected applicant will work within a dynamic team, engage in collaborative discussions and participate in the dissemination of research results through presentations and publications in high-impact journals. This research, aimed at obtaining a PhD degree in Physics, will be carried out under the supervision of CIEMAT members of the Global Argon Dark Matter Collaboration and the Measurements of (Alpha,n) Neutron spectra and Yields (MANY) collaboration.



For further information or questions regarding the application process, please contact: Daniel Cano Ott (daniel.cano@ciemat.es) & Roberto Santorelli (roberto.santorelli@ciemat.es)

The CIEMAT is an affirmative action/equal opportunity employer. Eliminating gender inequalities by promoting equal opportunities for men and women is a core compromise of our group and it is our commitment to establish the necessary actions to close the gender gap.