

Training program planned in the context of the requested project

The requested FPI candidate will do her/his doctoral thesis in the Biology doctoral program at the Complutense University of Madrid. The main objective of the training plan is to produce a fully independent researcher able to propose well-formulated hypotheses, plan experiments, and write manuscripts for high-ranking international journals. More importantly, the training will focus on developing future research projects to apply for calls available and prepare the candidate for a postdoctoral position. For this reason, the candidate will participate in specialized courses and workshops, aimed at improving their set of skills (e.g. machine learning, bioinformatics) as well as the development of professional skills (e.g. leadership workshops, grant writing). The MNCN has as objective to create a collaborative research and academic environment of excellence to motivate and support the most competitive research groups and attract the best students. The MNCN is committed to improving diversity and inclusion by hiring new staff: The MNCN will seek institutional support for the comprehensive renovation of its facilities (including laboratories, collections and exhibitions) and promote the training of scientific personnel, drawing on the knowledge and experience of our staff and existing collaboration with other Research Centers and Universities. The MNCN aims to strengthen the links established with different universities national and international, teaching and co-organizing master's degrees and other postgraduate courses, receiving undergraduate students for internships and supervising final degree projects, master's theses and doctoral theses. The MNCN has active participation in the SYNTHESYS+ program funded by Europe, which allows researchers to make short visits to use collections, staff experience and analytical installations of European museums and herbaria. The newly created Advisory Committee of Postgraduate will design a plan of continuous training and monitoring of scientific development for early career scientists to ensure best practices. In the context of the requested project the candidate will be trained in fieldwork and laboratory techniques, learning to capture and sampling of birds, and will receive formation in collection, identification and quantification of different species of parasites, statistical analyses of data and redaction of scientific papers. The statistical skills will be strengthened by participating in the "Factorial designs and analysis of experiments in Natural Sciences" course, taught at the MNCN. In addition, it will be necessary for the candidate to obtain the training to carry out experiments with animals by performing the available courses (Centro de Estudios Biosanitarios - <http://ceb.edu.es>). He or She will also be encouraged to present communications to scientific congresses. Finally, we will strengthen his/her abilities and propose him/her for a stay at the Department of Ecological Sciences (Institute of Ecology and Biodiversity, Chile) or others currently in contact with our team. Finally, in order to introduce other students to science, the formation plan includes the possibility of directing Bachelor final degree's (TFG) students such as those successfully made in the last years.