



# CALL FOR A PhD CANDIDATE



## THE ARCHAEOGENETICS OF IBERIAN CATTLE INVESTIGATING THEIR ORIGINS, EVOLUTION AND IMPROVEMENT

We are looking for a highly motivated graduate student, who is interested in pursuing a PhD degree in the field of Archaeogenetics, Biology, Animal Science, Bioinformatics or related fields to join the team of a research project entitled “ARCHAIC – The archaeogenetics of Iberian cattle: investigating their origins, evolution and improvement” (PTDC/CVTLIV/2827/2014; POCI-01- 0145-FEDER- 016647). The student will be engaged in this innovative project merging zooarchaeology and genomics – which is critical to capture the temporal and geographical dimensions of the history that shaped the genetic composition of cattle. This cross-disciplinary project represents a great opportunity to get intensive training in the methods of ancient and modern DNA analyses, including DNA isolation from a variety of sources, preparation of genomic libraries, and next-generation sequencing (NGS) while completing a graduate degree. There will be a strong bioinformatics component to process and validate NGS data using appropriate pipelines for ancient DNA sequence data, to estimate genetic diversity and investigate demographic processes.

**Place of work:** The invited student will interact with an international team of scientists at CIBIO/InBIO-University of Porto in the Campus of Vairão, Portugal, at LARC-National Laboratory of Archaeosciences in Lisbon, Portugal, and at foreign participating institutions namely the Archaeological Research Laboratory of Stockholm University, under the supervision of Dr. Catarina Ginja (CIBIO/InBIO).

**Required qualifications:** A master degree in Genetics, Biology, Animal Science, Bioinformatics or any related field is required. Candidates should demonstrate motivation for laboratory work and strong interest in molecular genetics and evolution. Preference will be given to students with experience in molecular biology, namely in preparing libraries for NGS and/or analysis of degraded samples. Bioinformatics skills will be valued. Good writing and communication competencies in English, along with team working skills are highly desirable. Availability to carry out research work outside Portugal is also needed. **The invited student is expected to apply to the call for PhD Fellowships of Fundação para a Ciência e a Tecnologia – FCT, Portugal, open until March 28, 2018 and should comply with the necessary requirements.** For details please check the call website:

<https://www.fct.pt/apoios/bolsas/concursos/individuais2018.phtml.pt>

**The application must include:** Motivation letter with a short biography and research interests; Curriculum vitae summarizing education, experience, other qualifying activity, and a list of publications; Copy of master degree and course grades; Names and contact information of two referees. **The application must be written in English and sent by e-mail to ARCHAIC@cibio.up.pt until March 16, 2018.**



**For more information:**

<http://archaic.campus.ciencias.ulisboa.pt/Archaic/home.html>

<https://cibio.up.pt/people/details/cginja>