**JOB OFFER**

Position in the project: PhD student

Scientific discipline: Life sciences

Laboratory: Laboratory of Paleogenetics and Conservation Genetics

Type of contract: Stipend

Number of positions: 1

Maximum stipend amount/month: 4166 PLN/month gross gross/ ~3150 PLN/month net

(The successful Candidate may additionally apply for a scholarship from the Doctoral School of Exact and Natural Sciences of the University of Warsaw, if granted, increasing the overall stipend to ~6000 PLN/month net)

Position starts on: 01.10.2022

Maximum period of contract: 36 months

UW unit: Centre of New Technologies

Project leader: Dr Mateusz Baca

Project title: Reconstruction and calibration of genome-based phylogeny of the Microtus genus using the Middle Pleistocene genomes

Project type: NCN OPUS

Project description: The project involves analyzing the genomes of modern and fossil specimens of small mammals to reconstruct their evolutionary histories and phylogenetic relationships.

Link to project description: Baca_OPUS_opis_EN

Key responsibilities include: The PhD student will participate in sequencing and analysis of nuclear genomes of selected small mammal species to characterize their evolutionary histories and phylogenetic relationships. Specific tasks will include: (i) DNA extraction, library preparation and sequencing of nuclear genomes from the range of modern and ancient specimens (ii) Bioinformatic analyses of the resulting data, including high-throughput sequencing data processing, phylogenetic reconstructions based on...
nuclear and mitochondrial genomes, reconstruction of effective population size changes using genome-wide data, admixture analyses etc. (iii) preparation of scientific publications.

### Profile of candidate/ requirements:

- master’s degree in biology, biotechnology, or molecular biology or similar. The degree should be obtained before the date of starting work in the project.
- basic knowledge of molecular genetics and phylogenetics, experience in laboratory work. Experience in DNA extraction, preparation of DNA libraries for sequencing and/or with ancient DNA oriented techniques welcomed.
- motivation to work
- knowledge of English at a level allowing to communicate freely and to read specialized literature with understanding

Additionally appreciated:

- at least the basic knowledge of Linux operating system.
- familiarity with software related to sequencing data processing (samtools, bedtools, bwa), genomic data analysis (ANGSD, Plink), phylogenetic reconstruction (BEAST, mcmctree).

### Required documents:

- cover letter
- curriculum vitae
- a copy of the master’s degree or a attestation confirming the planned date of defense
- signed information clause on personal data processing

### We offer:

- a friendly and motivating working environment in young and dynamic team
- participation in an exciting research project using the state-of-the-art research techniques
- access to fully equipped ancient and modern DNA laboratories
- participation in scientific courses and conferences funded by the project

### Please send your application to:

m.baca@cent.uw.edu.pl

### Application deadline:

Call closing date: 25th April 2022

Selected candidates will be invited for an interview in person at the Centre for New Technologies, University of Warsaw, online, or by telephone. Interviews will be held from 4 to 6 May 2022. If necessary, a second round of interviews will be held on 10 May 2022. Selection of the candidate will be carried out in accordance with the regulations of the National Science Centre and will be announced no later than 12th May 2022.

### Date of announcing the results:

12th May 2022

### Results will be announced by:

e-mail, CeNT website