MINISTERUL EDUCAȚIEI ȘI CERCETĂRII
UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE "IULIU HAȚIEGANU" CLUJ-NAPOCA

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UMF
UNIVERSITATEA DE MEDICINĂ ŞI FARMACIE
IULIU HAȚIEGANU
CLUJ-NAPOCA

**Registration No:7179/21.03.2025**

# COMPETITION NOTICE

## FOR THE NOMINATION/FILLING OF THE VACANT POSTS OF

**PhD students - 2 positions**
**Research technicians - 2 positions**

**In the framework of the project Health Program entitled "Development of translational research for vaccines, serums and other biological drugs - Acronym CANTAVAC 2.0", Financing Contract no. 98856/ 20.12.2024, SMIS code - 326920**

The University of Medicine and Pharmacy "Iuliu Hațieganu" Cluj Napoca invites applications:

- Based on Justification Note no. 6982/19.03.2025, approved by the university management on the advertisement of posts outside the organisation chart within the project *"***Development of translational research for vaccines, serums and other biological drugs***",*

- Based on O.M. no. 3498/06.03.2025 regarding approval of the *Internal procedure for the recruitment and selection of staff for employment on positions outside the establishment plan within the framework of projects financed by non-reimbursable external funds* (PLP 21) v3 for the University of Medicine and Pharmacy "Iuliu Hațieganu" Cluj Napoca;

**Timetable of the competition:**
- The competition files must be submitted between: 24.03.2025-28.03.2025, until 14.00
- The examination of the competition files will take place on 31.03.2025
- Appeals: 01.04.2025
- The interview will take place on 02.04.2025, Str. Gh. Marinescu, no. 23, Research Center for Functional Genomic, Biomedicine and Translational Medicine, 4th floor, at 10:00
- Preliminary results: 02.04.2025
- Deadline for lodging appeals: 03.04.2025
- The final results will be announced on: 04.04.2025

**General conditions for the vacant positions:**

- has Romanian nationality or nationality of other EU Member States or European Economic Area countries;
- knows written and spoken Romanian;
- is in good health for the post for which he/she is applying;
- meets educational and, where appropriate, seniority or other requirements specific to the post;
- has not been convicted of any criminal offense.

**1. PhD stundent –position 1**

**Specific requirements:**
- Graduated with a 5-year university degree, including a Master's degree in a field relevant to the project (Biology, Molecular Biotechnology, Chemistry, Medicine, or Pharmacy);
- PhD student in Medicine/ Pharmacy enrolled at UMF Cluj-Napoca, with a thesis topic focused on the application of omics technologies (genomics, proteomics) for analyzing the effects of biologically developed products on cancer cells;
- Certificate of language proficiency in English

minimum C1);
- Skills in gene expression analysis and omics data integration using software such as GeneSpring, Agilent IPA, molecular modeling, and bioinformatics simulation are an advantage;
- At least 12 months of experience in a research laboratory, with a focus on: *The use of cell cultures for expressing and testing molecules with therapeutic potential (e.g., monoclonal antibodies, recombinant proteins); * The development of in vitro models for studying the efficacy of modern therapies (e.g., tumor cell lines, organoids) is an advantage.

**Activities within the project**:
- Ensures the use of genome editing technologies (CRISPR, RNAi);
- Performs cell culture experiments (including mammalian and microbial cell lines);
- Conducts protein purification and characterization (Western blot, ELISA, chromatography);
- Develops, adapts and optimizes microbial fermentation procedures;
- Manages the biorepository of biological samples;
- Writes and publish scientific articles;
- Participates in dissemination activities at conferences, symposiums, and other events;
- Contributes to the writing of funding applications in the field.

Contract duration: 56 months (04.2025-19.12.2029)
Maximum hours/ month: 80 hours/month

**2. PhD stundent – position 2**

**Specific requirements:**
- Graduated with a 6-year university degree, including a Master's degree in a field relevant to the project (Medicine);
- Medical resident in a relevant specialty (preferably Infectious Diseases, Microbiology, or Laboratory Medicine);
- PhD student in Medicine/ Pharmacy enrolled at UMF Cluj-Napoca, with a PhD thesis focused on infectious pathology, metagenomics, host immunology, or prevention and treatment strategies;
- Certificate of language proficiency in English (minimum C1);
- Co-author of at least 10 ISI-indexed articles;
- At least 12 months of experience in a research laboratory, with a focus on: * Extraction, quantification, and quality control of RNA, DNA, and proteins; *Maintenance and use of cell cultures for in vitro studies (e.g.,

transfection, treatments); * Basic knowledge of laboratory techniques such as real-time quantitative PCR, ELISA, and SDS-PAGE is an advantage.

**Activities within the project:**
- Manages biobanking activities within the project, including documentation for each collected biological sample, transportation monitoring, protocol implementation for processing, and ensuring data traceability;
- Supports sample processing in the pre-sequencing stage to identify immune system changes that may contribute to the development of new personalized immunotherapies and vaccines;
- Performs cell culture experiments (including mammalian and microbial cell lines);
- Conducts protein purification and characterization (Western blot, ELISA, chromatography);
- Develops, adapts, and optimizes microbial fermentation procedures;
- Writes and publish scientific articles;
- Presents research findings at conferences, symposia, and other events;
- Contributes to the writing of funding applications in the field.

Contract duration: 56 months (04.2025-19.12.2029)
Maximum hours/ month: 40 hours/month

**3. Research technician - position 1**

**Specific requirements:**
- Graduate of a 5-year university program (including a Master's degree);
- Postdoctoral researcher at UMF Cluj-Napoca in Medicine/ Pharmacy;
- Member of at least 5 research projects;
- Experience in developing ethical documentation for various research studies is an advantage;
- Experience in laboratory techniques (immunohistochemistry studies, nucleic acid extraction, nucleic acid characterization) is an advantage.

**Activities within the project:**
- Develops ethics documentation in accordance with consortium requirements;
- Manages and monitors activities related to the biorepository of biological samples;
- Ensures the implementation of the study protocol approved by the Ethics Committee;
- Prepares periodic technical reports following the template required by the funder;
- Presents research findings at conferences, and other events;
- Contributes to the drafting of funding applications in the field;
- Provides scientific information to the general public and relevant research institutions.

Contract duration: 56 months (04.2025-19.12.2029)
Maximum hours/ month: 40 hours/month

**4. Research technician - position 2**

**Specific requirements:**
- Holds a university degree;
- Language proficiency certificate (minimum B2);
- Holds a certified IT qualification and has a minimum of 15 years of experience in an IT department;
- Has experience in network maintenance, implementation, and management from both software and hardware perspectives, as well as experience with e-learning platforms, Cloud data storage, and project data security;
- Member of at least 5 research projects.

**Activities within the project:**
- Manages Cloud infrastructure (AWS, Azure, Google Cloud), configures and maintains data networks (VPN, firewall, security), oversees database management (SQL, NoSQL, data lakes), identifies optimal solutions for Big Data storage and processing, and implements cybersecurity measures in compliance with regulations (GDPR, HIPAA);
- Ensures the implementation and monitoring of IT security measures to protect sensitive data;

- Automates workflows for experimental data processing;
- Participates in working meetings and any other activities/events organized to ensure the smooth execution of project activities and the achievement of objectives;
- Contributes to the fulfillment of project indicators.

Contract duration: 56 months (04.2025-19.12.2029)
Maximum hours/ month: 20 hours/month

In order to take part in the competition, candidates must submit their applications by 28.03.2025, until 14:00, to the Department of Research, Development and Innovation, Louis Pasteur Street, no. 4, 3rd floor, contact person Pop Mariana.

**Content of the application file**:

**a)** Application for the recruitment and selection process (standard application form attached to the recruitment and selection notice - must include the title of the post for which you are applying);
**b)** CV, dated and signed on each page, in Europass format, stating the project and the post applied for;
**c)** Copies of the original identity card or any other document proving identity, according to the law, as appropriate (certification will be made by comparison with the original documents by the secretary of the committee);
**d)** Copies of identity documents and educational documents certified to be in conformity with the original (certification will be made by comparison with the original documents by the secretary of the committee);
**e)** Original certificates/diplomas attesting to the completion of specializations, (originals are required for certification);
**f)** Supporting documents proving seniority in employment and/or studies, i.e. proving the specific professional experience required for the post (e.g. certificates of seniority in employment and studies, employment contracts, job descriptions, recommendations, etc.), copies in accordance with the original;
**g)** Criminal record or a sworn statement that he/she has no criminal record that would make him/her incompatible with the position for which he/she is applying; the criminal record must be submitted by the successful candidate within 10 working days of the publication of the final result of the recruitment and selection process;
**h)** A medical certificate attesting to an appropriate state of health issued no more than 6 months prior to the recruitment and selection procedure by the candidate's general practitioner or by the competent health units;
**i)** Declaration of availability of time allocated to the project, per day and per month;
**j)** Agreement on the processing, handling, and storage of personal data.

**Competition Schedule**

**The competition will consist of 2 stages as follows**:

**- First Step**: Verification of the eligibility of applications submitted by candidates. All CVs received and other documents submitted will be analysed using the Recruitment and Selection Grid.

The Selection Committee will post the result of the evaluation of the applications and the scheduling of the interview on the website www.umfcluj.ro on 31.03.2025 with the mention "admitted" or "rejected".

**- Second Step**: Interview.

Verification of candidates' knowledge and/or skills will be carried out through individual interviews. The interview will be conducted according to the interview schedule drawn up by the Recruitment and Selection

Committee on the day of the interview based on the assessment criteria. The maximum possible mark awarded to a candidate will be 100 points and the minimum admissible mark will be 60 points.
The results of the candidates at the interview stage will be the arithmetic average of the marks awarded by the members of the committee and will be published on the website www.umfcluj.ro on 02.04.2025.

**Settlement of appeals**:
Any appeals must be lodged within one working day of the publication of the results of the selection and/or interview, except in the case of compulsory rest days (Saturday and Sunday) or statutory holidays, in which case the deadline is extended to the first working day following publication. Appeals will be dealt with by the Appeals Committee.
The marks awarded after appeals remain definitive.