

# Call for the Training Plan in Artificial Intelligence and Big Data for Cardiovascular health: **cardiotrAIning**

*This call is included in the framework of the TALENT ATTRACTION AND RETENTION PROGRAMS. Talent attraction and retention programs are one of the actions at the investment area 4, Digital Professionals, which is within component 19 of the National Digital Capabilities Plan, encompassed within Generation D, and framed within the Recovery, Transformation and Resilience Plan. The project is part of the Artificial Intelligence Strategy approved on May 14, 2024 by the Council of Ministers, in which one of the fundamental axes is training in Artificial Intelligence. Red.es, an entity attached to the Ministry for Digital Transformation and Public Function through the Secretary of State and Artificial Intelligence has allocated 120 million euros for scholarships and training contracts in Artificial Intelligence that aim to ensure the training and digital inclusion of citizens and workers.*

The training plan managed by the CNIC offers 9 positions for predoctoral researchers, 3 postdoctoral researchers and 3 technicians. The contracts will have a duration of 4 years, with a maximum incorporation date of 01/01/2025.



TRAINING PLAN IN ARTIFICIAL INTELLIGENCE AND BIG DATA FOR CARDIOVASCULAR HEALTH

## Funding

*"The funding for these actions/grants and contracts comes from the European Union's Recovery and Resilience Mechanism-Next Generation, within the framework of the General Call from the public entity Red.es to participate in the talent attraction and retention programs within Investment 4 of Component 19 of the Recovery, Transformation and Resilience Plan"*

## Applications: deadline and procedure

Applications to participate in the program as a predoctoral researcher should be submitted electronically through the following link:

[9 positions for predoctoral researchers at cardiotrAIning](#)

Applications to participate in the program as a postdoctoral researcher or technician should be submitted electronically through one of the following links:

- [1 postdoctoral researcher position in AI applied to biomedical imaging](#)
- [1 postdoctoral researcher position in AI for the development of digital twins](#)
- [1 postdoctoral researcher in AI for the development of virtual screening systems](#)
- [1 position for an imaging technician](#)
- [1 position for a technician to work on Big Data analytics](#)
- [1 position for a technician in omics data integration for the development of CV risk scores](#)

The deadline for submitting applications is September 16, 2024 included.

## Eligibility requirements

Each profile has some essential requirements to be able to access the position. Check the requirements in the corresponding advertisement on the CNIC employment page <https://www.cnic.es/en/empleo/ofertas-empleo> and on the links above

## Offered

### Predocctoral profile

"*Contrato de Investigador Predocctoral en formación de duración determinada*" of 1 year duration, in accordance with Art. 21 Ley 14/2011 de la Ciencia, la Tecnología y la Innovación (texto refundido Ley 14/2011, de 1 de junio, de la Ciencia, la Tecnología y la Innovación), extendable up to the maximum limit of 4 years, provided that the selected candidate meets the legal requirements for the formalization of the contract in accordance with the law. The salary is that stipulated for predoctoral researchers in the CNIC salary table.

### Postdoctoral profile

"*Contrato de duración determinada*" in accordance with Disposición Adicional quinta del Real Decreto-ley 32/2021, de 28 de diciembre, de medidas

urgentes para la reforma laboral, la garantía de la estabilidad en el empleo y la transformación del mercado de trabajo para la ejecución de programas de carácter temporal cuya financiación provenga de fondos de la Unión Europea, provided that the selected candidate meets the legal requirements for the formalization of the contract in accordance with the law. Duration: 4 years. The salary will be the one stipulated in the CNIC salary table for postdoctoral researchers according to the candidate's experience.

### **Technician profile**

“Contrato de duración determinada” in accordance with Disposición Adicional quinta del Real Decreto-ley 32/2021, de 28 de diciembre, de medidas urgentes para la reforma laboral, la garantía de la estabilidad en el empleo y la transformación del mercado de trabajo para la ejecución de programas de carácter temporal cuya financiación provenga de fondos de la Unión Europea, provided that the selected candidate meets the legal requirements for the formalization of the contract in accordance with the law. Duration: 4 years. The salary will be the one stipulated in the CNIC salary table for postdoctoral researchers according to the candidate's experience.

### **Common for all profiles**

- Joining a Research Center of international relevance in the scientific field before 01/01/2025.
- Access to state-of-the art infrastructures and advanced technologies.
- Integration into an excellent scientific environment.
- Participation in the AI and Big Data for Cardiovascular Health Training Plan with theoretical and practical content equivalent to 240 ECTS, which includes:
  - A theoretical part that will allow the acquisition of knowledge in artificial intelligence and biomedical Big Data. The courses will be taught by renowned professionals in the field. It includes placements in different laboratories of the CNIC and on national and international collaborating entities. For more details, see [Annex I](#).
  - A practical part that will focus on the development of a research project related to the diagnosis, prevention and treatment of cardiovascular disease. For predoctoral students this project will be the topic of their doctoral thesis. The research projects will be developed at CNIC, under the supervision of groups from the centre and other national and international collaborating groups. See [Annex II](#) for details of the research lines offered.
  - Annual workshops in which students will share their progress and doubts with relevant scientists in their research areas.
  - Participation in the centre and program seminars organized weekly at the CNIC.

- End-of-project conference to share the results of the research of each participant.

## Evaluation

The selection and recruitment process will follow the European Charter and Code for Researchers and Code of Conduct for the Recruitment of Researchers and will be merit based, independent and transparent. Applications will be evaluated on merit-based principles and their scientific excellence by external evaluators. The details are described in the corresponding job advertisements on the CNIC employment page <https://www.cnic.es/en/empleo/ofertas-empleo>.

## Further Considerations

1. The development of this program is subject to budgetary availability of the CNIC. If necessary, it may be suspended or the contributions made to the program may be modified.
2. In accordance with the provisions of article 5 of Organic Law 3/2018, of 5 December, on the Protection of Personal Data and Regulations (UE) 2016/679 related to the Protection of Personal Data, we inform you that personal data collected as a consequence of the present call will be incorporated into an automated file called HR registered with the Spanish Agency of Data Protection under the ownership of the Centro Nacional de Investigaciones Cardiovasculares, with the aim to manage your registration and participation in this call, as well as to track your professional training and career by sending corporative material of the Center to the email address you provided. Your personal data will not be transferred to any third party outside the Center, unless you provide express authorization or it is required by law. You may exercise your right to object to the treatment described, as well as the rights of access, rectification and deletion of information provided to the Center by contacting the following address: Centro Nacional de Investigaciones cardiovasculares (CNIC), C/ Melchor Fernández 3, 28029, Madrid. If you need any further information about the use of your personal data, please send an email to [dpo@cnic.es](mailto:dpo@cnic.es) and follow the following link: <https://www.cnic.es/en/privacy>. The processing of your personal information as described in the previous section is necessary for the Center to manage your registration for this training event, without which inscription will not be possible.
3. The industrial property rights of research personnel in training and of persons participating in CNIC training programs or stays at the CNIC shall be governed by the rules published on the CNIC web site: <https://www.cnic.es/en/training/regulations>.

4. The Code of Good Corporate Governance and the Code of Ethics and the Code of Good Scientific Practice of the CNIC (<https://www.cnic.es/en/transparencia>) must be complied by all beneficiaries of the CNIC training programmes. The Human Resources department will inform the researchers about the European Charter for Researchers.
5. The CNIC endorses and promotes the principles of the European Charter for Researchers and the Code for the Recruitment of Researchers with special emphasis on those related to equality and nondiscrimination.
6. The CNIC promotes the non-interruption of the training of employees who have interrupted their careers for parenthood reasons. Consequently, the CNIC training programmes will appraise these circumstances especially through positive action in such a way that when two employees obtain the same ranking, preference will be given to those who interrupted his/her career for maternity or paternity reasons or due to risk situations during pregnancy or lactation, maternity leave or leave for care of a first or second degree relative by blood or marriage.
7. Considering that there is no a priori gender imbalance among the applicants and given that the spirit of the call is that the academic and professional merit of the participants prevails, only in case of a tie of merits, the person of the least represented gender will be selected.
8. The CNIC guarantees, within its field of action, the principle of equal access to employment, and may not establish any direct or indirect discrimination, based on grounds of origin, including racial or ethnic origin, sex, age, marital status, religion or beliefs, political opinion, sexual orientation and identity, gender expression, sexual characteristics, trade union membership, social status, language within the State and disability, provided that workers are fit to perform the work or job in question.

Alberto Sanz Belmar

Director Gerente de CNIC