

CALL FOR APPLICATION

INSERM CHAIR Recruitment

"CARDIOMET : Innovation in the Pathophysiology of Metabolic and Cardiovascular Diseases"

The Inserm chair recruitments opened to Inserm are intended for researchers with strong potential to manage and lead research teams and participate in national, European or international projects.

This recruitment, based on research and teaching projects, is aimed at researchers with a doctorate or equivalent and a first post-doctoral experience. The position is offered on a fixed-term contract (CDD) with a view to tenure in the Inserm Research Directors personnel at the end of the contract.

Application on EVA: <https://eva3-accueil.inserm.fr/sites/eva/chaieres/2024/Pages/default.aspx>



Supporting institution:	Inserm : Institut national de la Santé et de la recherche médicale
Name of the head of the institution:	Pr. Didier Samuel
Academic region:	Toulouse
Location/ Site concerned:	I2MC Inserm U1297 - Institut des maladies métaboliques et cardiovasculaires https://www.i2mc.inserm.fr/
Partner institutions:	Université Toulouse III - Paul Sabatier
Research contact:	Dominique LANGIN: dominique.langin@inserm.fr
Administrative contact:	chaieres-professeur-junior@inserm.fr
Research fields EURAXESS :	Medical sciences
Keywords:	cardiovascular and metabolic diseases ; metabolism, cardiac, renal and vascular biology; aging

Job title to be filled:	Chair - Innovation in the Pathophysiology of Metabolic and Cardiovascular Diseases
Body after tenure:	Research Director
Anticipated duration of the contract:	5 years
Scientific domains/fields:	Physiology, Pathophysiology and Endocrinology
Corresponding specialized scientific commissions (CSS):	CSS 3 - Physiology and pathophysiology of major systems

Project name:

"CARDIOMET : Innovation in the Pathophysiology of Metabolic and Cardiovascular Diseases"

**Remuneration package
Quota**

3 500€ - 5 000€ according to research experience
Full Time

Strategy of the host institution:

Among the Inserm thematic institutes, the « Pathophysiology, Metabolism, Nutrition (PMN) » Institute covers a broad spectrum of research in physiology, experimental medicine and pathologies. Cardiovascular & renal diseases, diabetes and obesity are priority topics for Inserm. While the diseases are organ-specific involving notably adipose tissue, skeletal muscle, liver, heart, vessels and kidney, understanding and treatment of these diseases must take into account the body as a whole and the interactions with the environment.

Inserm is committed to the challenging development of personalized therapies for these diseases, which require improvement of our knowledge in pathophysiology, identification of risk factors, implementation of predictive medicine, and better targeting of prevention messages to the general public.

Strategy of the host laboratory:

I2MC (www.i2mc.fr) research focuses on metabolic, cardiovascular and renal diseases. The Institute performs translational, multi-scale and multi-organ research integrating preclinical models and clinical research trials. The I2MC research teams have a wide range of expertise (pathophysiology, metabolism, cell signaling, regulation of gene expression, cell death/senescence, etc.) and know-how (molecular and cell biology, 'omics, biomarkers, biochemistry, mouse and rat models).

50 m² of laboratory space with offices and access to a large cell culture room are devoted to the recruited researcher team. The research project will benefit from the technological facilities hosted by I2MC (Transcriptomics, Functional Biochemistry, Bioinformatics, Lipidomics, Histology, Imaging, Cytometry) or other sites part of the Genotoul network. An animal core facility part of UMS006 CREFRE and the Toulouse University Hospital departments supporting translational research are located next to I2MC. I2MC research teams are affiliated with the Biology, Health, Biotechnology - BSB doctoral school.

Summary of the scientific project:

Metabolic, cardiovascular and renal diseases represent the largest share of age-related chronic diseases. There is currently a lack of relevant models to characterize pathophysiological processes and propose new therapeutic targets. The recruited researcher will study the mechanisms underlying metabolic, cardiovascular and renal diseases that may be related to aging. The project may combine phenotyping of mouse models, exploitation of data from clinical trials and innovative cellular and molecular approaches. This research work is expected to be in line with the 2023-2033 national strategy focused on reducing the impact of chronic diseases. The recruited researcher will also benefit from scientific collaborations with the new Institut Hospitalo-Universitaire "HealthAge" aiming to study and promote healthy aging (Toulouse Hospital, TIRIS-University of Toulouse, INSERM and Occitanie Region).

Summary of the teaching project:

The recruited researcher will teach cardiovascular and metabolic functions within the team in charge of animal physiology at Toulouse III University. The courses will integrate translation at the level of the human organism and will focus on chronic diseases, especially those related to age. As part of an interdisciplinary approach, teaching should also address innovative technologies used to understand these functions and their disturbances (e.g., 'omics, machine learning, organoids, imaging, tissue engineering, etc.)

At the Faculty of Science and Engineering, the recruited researcher will intervene at the levels of the:

- Life Sciences Bachelor program in Cellular Biology and Physiology in the energy metabolism and cardiovascular physiology fields.
- Biology-Health Master program in the metabolic and cardiovascular fields.

National Research Agency package:

200k€

Other package:

Co-funding: 50k€ (I2MC starting package) + grant applications*

*Grants : Region Occitanie and Université de Toulouse TIRIS (Toulouse Initiative for Research's Impact on Society) programs to support CPJ (incl. post-doctoral application) to be launched, application to charities according to field of expertise, ANR grants,... I2MC will help the recruited professor in applying to these grants.

Scientific communication and dissemination, Science and society:

Scientific communication and dissemination:

The results of this work will be published in peer-reviewed journals. Data will also be communicated at national and international congresses. The recruited researcher will participate in the organization and animation of scientific events in Toulouse, France and abroad. Inserm (Inserm-Transfert) will advise the project leader on how to adequately protect and consider protection and exploitation of future data generated (patent filing, preclinical and clinical development, etc.).

Open Science:

Inserm has long been committed to supporting open science. One of the priorities of the Institute's Strategic Plan 2025 is to make publicly-funded research results available to society. The objectives are to increase the visibility of research work, improve research efficiency and meet national and European contractual obligations.

In line with the National Plan for Open Science, the Institute has also developed a model for data management plans, designed to encourage the opening up of research data.

Inserm is also participating in a transforming agreement to obtain compensation for expenses linked to open access publication.

The recruited researcher will comply with Inserm and University of Toulouse III current policies. Specifically, a large part of the data will be made available through publications and deposit in public databases such as bioRxiv and HAL. Data will be share with the whole community via OSF (Open Science Framework).

Science and society:

Inserm has signed the "Charte des sciences et recherches participatives" and believes in the contribution of citizens to the production of knowledge and innovation alongside researchers. Participatory research should be deployed in this project and provide particularly useful information in terms of prevention. I2MC researchers are committed to disseminating their research work to the general public and to patient associations.

Indicators:

Teaching

Integration in the animal physiology teaching team
Proposal of new courses incl. innovative approaches
Student follow up

Research

Quantity and quality of publications
Obtention of research grants
Adequacy between the research carried out by the recruited researcher and I2MC scientific policy

Knowledge transfer

Collaborative research with public findings
Participation in national and international scientific meetings

Selection of candidates:

It is expected the recruited researcher to become rapidly a group leader in the GAD team. So the candidate should demonstrate ability to supervise Ph.D students, post-doctoral fellow and technical support staff. She/he should have the capacity to obtain competitive funding to manage her/his group.

Successful candidates are chosen by a selection commission composed of six to ten members, the majority of whom are specialists in the fields of research concerned.

The commission carries out an initial examination of the applications, focused in particular on candidate experience and skills relative to the research and teaching project presented above. A shortlist of candidates is then selected for interview.

Only candidates selected by the selection committee on the basis of their applications will be invited to interview.

The interviews are followed by a deliberation during which selection commission will discuss the quality, originality and, where appropriate, the interdisciplinarity of the research and teaching projects presented by the candidates, their motivation and their scientific and teaching supervision capacity.

The candidates selected at the end of the selection process will be offered a researcher contract, following approval from the President and CEO of Inserm.

Required profile:

Education Level : **Phd**

Researcher Profile : R3/R4

R3 Established researcher A stage in a researcher's career describing those who have developed a level of independence and can be described as an established researcher

R4 Leading Research A stage in a researcher's career where they can be termed a 'leading researcher'. This would include the team leader of a research group or head of an industry R&D laboratory.

Your application will be evaluated according to the following criteria :

- Relevance and originality of the project related to the research field
- International exposure in research projects
- Your ability to raise funds
- Participation in editorial and reviewing activities
- Your teaching experience
- Your ability to lead a team...

Application instruction:

Applications can be submitted online at [EVA](#).

Deadline application: **April 2, 2024**

Please complete the scientific file in English.

It is imperative to contact the laboratory corresponding to the Chair you have applied for in order to build the project with them.

Position also open to 'Bénéficiaires de l'Obligation d'Emploi' (disabled persons), as defined in article 27 of law no. 84-16 of January 11, 1984 on statutory provisions for the civil service.