

## CALL FOR APPLICATION

### INSERM CHAIR Recruitment

#### Exposome and chronic 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/2023/session2/Pages/default.aspx>



<b>Supporting institution:</b>	Inserm : Institut national de la Santé et de la recherche médicale
<b>Name of the head of the institution:</b>	Pr. Didier Samuel
<b>Academic region:</b>	Rennes
<b>Location/ Site concerned:</b>	Rennes - IRSET – U1085 Inserm
<b>Partner institution:</b>	Université de Rennes and EHESP (Ecole des Hautes Etudes en Santé Publique)
<b>Research contact Administrative contact</b>	M. Michel SAMSON (Director): <a href="mailto:michel.samson@inserm.fr">michel.samson@inserm.fr</a> <a href="mailto:chaieres-professeur-junior@inserm.fr">chaieres-professeur-junior@inserm.fr</a>
<b>Research fields EURAXESS :</b>	Public health
<b>Keywords:</b>	Exposome, environmental epidemiology, risk factors, chronic diseases

<b>Job title to be filled:</b>	Chaire Exposome et maladies chroniques
<b>Body after tenure:</b>	Research Director
<b>Anticipated duration of the contract:</b>	3 years
<b>Scientific domains/fields:</b>	Public health, exposomics, environmental exposure
<b>Corresponding specialized scientific commissions (CSS):</b>	CSS6 : Santé publique, santé des populations
<b>Project name:</b>	Exposome and chronic diseases

<b>Funding :</b>	
<b>ANR package :</b>	200k€
<b>Co-funding* (Univ Rennes grant for PhD salary + Irset's operating funding)</b>	100k€
<b>Total project</b>	300k€

<b>Remuneration package</b>	3 500€ - 5 000€ according to research experience
<b>Quota</b>	Full Time

### Strategy of the host institution:

The French National Institute of Health and Medical Research (Inserm), the only French public research organization entirely dedicated to human health, covers a wide range of health research fields, from basic research to clinical research, to public health research, the latter being under the supervision of a fully-fledged multi-organization thematic institute. Thus, in its "Contrat d'Objectifs de Moyens et de performance 202 - 2025", Inserm clearly displays priority scientific axes, responding to major health and societal issues. Among the research themes highlighted as leading scientific prospects, Inserm is committed to the fields of metabolic and chronic inflammatory diseases, public health, including health-environment issues, the impact of climate change and the exposome. This request for a chair on the theme of "Exposome and chronic diseases" is therefore fully in line with this approach and the chair is a tool for this strategy.

### Strategy of the host laboratory:

The Research Institute for Environmental and Occupational Health (IRSET) is a large inter- and multidisciplinary research center on environmental and work-related risks in the field of public health. The main objective of this institute, with more than 305 people, is to study and understand how environmental factors, i.e. certain physical agents such as electromagnetic waves, chemical agents such as environmental pollutants including pesticides, biological agents such as certain viruses or parasites, occupational exposures and socio-economic factors, influence human health.

Through the chair, IRSET wishes to reinforce its scientific strategy in the field of environmental health by promoting research in environmental epidemiology, allowing to better characterize the role of the exposome and environmental exposures in the occurrence and progression of chronic diseases. This chair also supports IRSET's attractiveness policy and its dynamic of renewal and creation of new teams in innovative disciplinary fields.

### Summary of the scientific theme:

The set of environmental exposures to which an individual is exposed, from conception and throughout his or her life (notion of exposome), provides an unprecedented conceptual framework for the study of multiple environmental risks (physical, chemical and biological agents, lifestyles, climate change...) and their combined effects on the occurrence and progression of chronic tumor and non-tumor diseases, the number of which is clearly increasing.

The chair holder will draw on his/her expertise in environmental epidemiology and his mastery in the construction and implementation of appropriate studies, the measurement of exposures and the statistical processing of data, to further investigate the links between the exposome and health and thus contribute to

the improvement of prevention strategies. The chair holder will interact with the various IRSET research teams, particularly in environmental epidemiology and occupational health, as well as with the IRSET's LERES platform. He/she will build his project by taking part in European projects in the field of the exposome and will aim to create a new team at the end of his/her contract.

### Summary of the teaching project:

The chair holder will be able to teach in the Master of Public Health program, co-accredited by the University of Rennes, the Ecole des hautes études en santé publique (EHESP-School of Public Health) and the University Rennes 2, which includes 2 Master 2 programs.

Thanks to his/her competences in environmental epidemiology and causal inference methods, the chair holder could teach more particularly with the students of the courses "Modeling in Clinical Pharmacology and Epidemiology (MPCE)" and "Methods and tools for the evaluation of environment-related health risks (METEORES)".

In this context, he/she could develop courses on the methodology for evaluating environmental exposures in epidemiology in its field of competence (e.g. use of geographic information systems, air pollution), on how to consider errors in measuring these exposures and on advanced statistical models for studying the relationship between the exposome and health.

### Scientific dissemination/ Open Science :

The chair holder will aim to publish regularly in the best international scientific journals. He/she will communicate on the results of his/her research during international congresses dealing with his/her research fields, and will participate in the organization and animation of scientific events in France and abroad. To do this, he/she will rely on the partnerships already in place between the IRSET and prestigious centres in public health research across Europe and North America. He/she will also develop new international partnerships in the field of exposomics

#### Open Science :

The Université de Rennes defines itself as a sustainable organisation, committed to accompany societal evolution. It has adopted a global and proactive policy in favour of open science, open education and open innovation, and has implemented rules for systematic publication to the open archive HAL. This approach marks an important step towards generalizing open resources in research and education.

### Science and society:

Thanks to the close links between IRSET members and the communication services at the Université de Rennes, the Inserm, the EHESP and the Rennes University-Hospital, our main scientific discoveries and medical advances are regularly taken up by the local and national media. Dissemination to the general public is continuous, through both actions of communication and participations in local or national events.

### Selection of candidates:

It is expected the recruited researcher to become rapidly a group leader in the 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.

### Contract development and tenure:

The **GAD team and INSERM1231** will follow and support the recruited researcher in this chair project in order to offer her/him all the guarantees, so that, no later than two months before the end of the contract, the agent's professional aptitude and tenure track are examined by a tenure commission. If the tenure commission declares the agent fit to carry out the tasks of the body in which he/she is to be granted tenure, the CEO will appoint him/her to the body of research directors reporting to the establishment.

### 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...

#### Indicators:

Beyond scientific production, the evolution of the recruited researcher will be evaluated according to the following criteria: international networking, grant securing, training by research and supervision, innovation and teaching activities.

In addition to this regular follow-up, in-depth annual evaluation will be carried out to ensure that, at the end of the 3-year period, the recruited researcher will be appointed to a permanent position of Research Director by the Inserm after a final assessment.

#### Application instruction :

Applications can be submitted online at [EVA](#).  
Deadline application: 11<sup>th</sup> September 2023

*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.