

CNRS Tenure Track Position

Établissement/organisme porteur : CNRS

Établissements/organismes partenaires envisagés : IPP, PSL, Saclay, Sciences Po, Sorbonne Nouvelle

Laboratoires d'accueil envisagés : CREST, ISP, Laboratoire de Sciences Cognitives et Psycholinguistique, Lattice, OSC, IRHT, Internet et société, ISC-PIF.

Nom du projet : Artificial intelligence in the humanities and social sciences

Acronyme : IASHS

Mots-clés : Artificial intelligence, massive data, digital humanities, computational social sciences

Durée visée : 4 ans

Profile : Holder of a doctorate or equivalent diploma or proof of titles and scientific work deemed equivalent by the competent body of the establishment.

There is no restriction on the age or nationality of applicants

All CNRS positions are accessible to people with disabilities, with special arrangements for tests made necessary by the nature of the disability

Thématique scientifique : Artificial intelligence and SSH

Section (s) CNU/CoNRS/CNAP correspondante (s) : CNU : 05-06-07-08-17-19/ CoNRS : 32-34-35-36-37

IR/TGIR/SNO impliqué (préciser si EquipEx+ impliqué) : Huma-Num

Stratégie d'établissement :

This profile is a priority of the CNRS. In particular, for the Institute for Humanities and Social Sciences institute, it has a twofold focus. First, it has a methodological focus - on the issues of quantification and massive data, formalization and conceptualization, social sciences and computational digital humanities supported by AI. Second, it has a thematic focus, as a topic in itself, and relates to the issue of the social uses of AI and to digital transitions and AI. Within the CNRS, it is one of the societal challenges of the COP (https://www.cnrs.fr/sites/default/files/download-file/COP_CNRS1_0.pdf).

AI methods remain technically difficult to access and they are epistemologically demanding to grasp. This profile aims to support the development of high-level expertise in the field of humanities and social science capable of having a dynamizing effect for its communities.

Stratégies des laboratoires d'accueil :

The potential host laboratories are from several disciplinary fields: history of ancient and medieval worlds, philosophy, economics, sociology. They have been chosen on the basis of their key positioning in digital humanities or computational sciences, especially taking into account the development of computational social sciences and the use of massive data in linguistics and economics. They have also been chosen because of their inclusion in an academic context that has also made AI a priority. They are

co-supervised by institutions with which the Institute for Humanities and Social Sciences wishes to develop special relationships in this field of research.

Résumé du projet scientifique :

Massive data (statistical and econometric developments, large datasets/sets, semantic data, etc.) raise specific production and storage issues for the humanities and social sciences, such as a central role for data sciences and the development of techniques based on machine learning. In digital humanities and computational social sciences, it is then a challenge to determine how to support the emerging methods of artificial intelligence (AI) for data mining. This implies a quantitative leap in the need for human and technical resources, as AI methods remain technically difficult to access and epistemologically demanding as mentioned above. Beyond the transformations in the methodologies of the disciplines it induces, AI is a societal theme with multiple ethical, economic and social aspects that must be studied as a decisive aspect of the digital revolution.

Résumé du projet d'enseignement/observation :

The teaching program will be discussed according to the research centre where the laureate will be affiliated.

He/she will be involved in the existing teaching programs.

The UPRs mentioned in the list of potential host laboratories offer very specialised training which correspond to rare, internationally recognised competences and are the backbone of a teaching program (e.g. IRHT induction courses, <https://www.irht.cnrs.fr/fr/formation/les-stages>).

Synthèse financière :

320 K Euros for the project

Scientific dissemination:

The dissemination of the results will be done through world-class scientific productions: publications, patents, software... In addition, the results will be communicated to various targets such as scientific communities, media, decision makers, general public, schools, etc., with an adapted calendar. Specific tools may be developed such as websites, newsletters, meetings, international symposia, summer schools and conferences.

Open science :

The CNRS is developing a strong policy in favour of open science (https://www.science-ouverte.cnrs.fr/wp-content/uploads/2019/11/CNRS_Roadmap_Open_Science_18nov2019.pdf).

Open science aims at making research results "as accessible as possible and closed as necessary". As such, the CNRS intends to make 100% of the scientific production elaborated in its research centres accessible, in particular through its deposit in HAL. The data produced must also be made available and reusable, unless there are specific restrictions. In addition, the guidelines for individual evaluation have been revised in accordance with the DORA declaration, to be more qualitative and to take into account all facets of the researcher's profession.

Science and society :

The relationship between science and society is now recognised as an integral dimension of scientific activity.

The project will develop this dimension in synergy with all its partners. The resulting research work will help to inform public decision-making. Participatory science initiatives may be initiated with actors from the project's socio-economic and cultural ecosystem.

Indicators:

The evaluation will be based on criteria used by the National Committee for Scientific Research (CoNRS). The activity will be evaluated on the basis of scientific production in terms of high-level publications and communications, on institutional and private partnerships formalized by contracts, on international presence, on transfer towards multidisciplinary scientific communities, and on scientific dissemination to non-specialist audiences.

Deadline for submitting the application : August 31, 2022 3:00 p.m. (Paris time)

Link to the application form : <https://emploi.cnrs.fr/OffresCPJ.aspx>