# PhD Internship Program
# 2020

## Background

The DATAIA Institute is the French convergence institute specialized in data science, artificial intelligence and society, or how big data technologies and artificial intelligence intersect with the human and social sciences so that artificial intelligence benefits to society.

Selected by the National Research Agency (ANR) as part of the "Investments for the Future" programs, the DATAIA Institute aims to consolidate and structure a wide multidisciplinary expertise to better meet the major challenges in data science, artificial intelligence and their applications, by removing barriers between mathematics, computer science, humanities and social sciences.

It gathers more than 200 researchers and professors from seventeen institutions (see Appendix 2 below) and has launched its industrial affiliate program that will enable close collaborations between academics and companies.

## Objectives

This program gives :
- doctoral students around the world the opportunity to use the resources and facilities at DATAIA Institute for their PhD dissertation, and work with DATAIA Institute researchers in areas of mutual interest ;
- doctoral students from the labs of DATAIA partners the opportunity to make research abroad.

PhD interns will spend from 3 to 6 consecutive months in host labs (at Paris Saclay for incoming students, and abroad for outgoing students) and are expected to return to their home institution afterwards. The DATAIA Institute funds the internship with a monthly allowance of € 2000 that will be used for students' stipend and/or living expenses.

Applications for this call should demonstrate how they contribute to the objectives of the DATAIA Institute and in particular to the structuring of the field of data science within the Paris-Saclay Campus. As a result, all proposals must fit into at least one of the 4 main challenges of DATAIA and can impact an application domain (see the list of "Subject Areas" in Appendix 1).

## Duties and Responsibilities

During their stay, PhD interns prepare one or more research papers and present their findings in the research seminars of the host laboratory. They may be asked to participate in DATAIA Institute events (in the case of incoming students).

The host laboratory will provide DATAIA Institute with a one-page summary about the PhD intern activities, within one month after the end of the internship. This report will detail the activities carried out during the stay, the highlights and prospects for future collaborations. The host laboratory also commits to give DATAIA information that allows to measure the impact of the internship (projects, publications, etc…).

All beneficiaries of support from the convergence institute, must include the following text in all scientific communications related to the funded activities: *This research was supported by DATAIA Convergence Institute as part of the « Programme d'Investissement d'Avenir », (ANR-17-CONV-0003) operated by [DATAIA Partner] XXX.*

## Terms of application submissions

This call is restricted to laboratories and research teams that belong to DATAIA partner institutions (see List in Appendix 2).

## Application process

Laboratories and research teams must send applications by email to submission-dataia@inria.fr.

For any questions, please send an email to contact-dataia@inria.fr

The application must include
- ❖ Administrative information as below:
  - o Names of the host laboratories and project leaders and their contact information
  - o Names of laboratories (or teams) of the convergence institute that will benefit from the funding
  - o Names, contact details of the scientific and administrative managers within each laboratory (team) of DATAIA partners receiving funds
  - o Choice of at least one DATAIA subject areas (see Appendix 1)
  - o Length of the stay and estimated arrival and departure dates of the internship
  - o Expected benefits for DATAIA Institute

- ❖ And a description of the internship proposal with the following items:
  - o PhD CV (2/3 pages with contact information, status, institution, PhD topic, main scientific contributions)
  - o Recommendation Letter from the PhD supervisor
  - o Research work programme, courses and seminars planned for the internship (1 page max)

## Selection Process

Applications will be reviewed and selected by the DATAIA Institute executive committee (Bureau). The committee will inform the host laboratory of their decision within one month after application submissions.

# Appendix 1 : Subject Areas

The scientific program of each proposal should explicitly address at least one of the four subject areas outlined on the link below; these are the four interdisciplinary challenges of DATAIA: see http://dataia.eu/en/institute/overarching-challenges

Projects may address topics more specific to application areas. A non-exhaustive list of these areas is available on link below. However, it is requested that projects address data science issues of general interest and are not restricted specifically to a field of application: see http://dataia.eu/en/application-domains

# Appendix 2 : List of DATAIA Partners

Agro ParisTech
CentraleSupélec
CEA
CNRS
Ecole polytechnique
ENS Paris-Saclay
ENSAE
ENSTA ParisTech
HEC Paris
IFP-EN
Inria
Institut Mines-Telecom (Télécom Paris, Télécom Sud Paris, Institut Mines-Télécom Business School)
Inra
Université d'Evry Val d'Essonne.
Université Paris-Saclay
Université Paris-Sud
Université Versailles St-Quentin-en-Yvelines