

## PhD in artificial intelligence

2021

### Context

Two PhD programs have been supported by the ANR agency for Lille area.

- The program *AI\_PhD@Lille* from the University of Lille and Inria, obtained 22 PhD grants.
- The program *AI\_Engineering\_PhD@Lille* proposed by Centrale Lille obtained 8 PhD grants.

### Offers in 2021

This year, **20 PhD positions** are opened (University of Lille – 10 ; Inria – 5 ; Centrale Lille – 5)

### Calendar 2021



## Supervision team

The supervision team will have two main tasks:

- Supervising the recruitment process
- Advising the PhD students (following the promotion)

Name	Position
Clarisse Dhaenens	VP Research – domain Sciences and Technologies - ULille In charge of AI related dossiers Project leader
Nil Toulouse	VP Research – domain Law, Economics and Management - ULille In charge of doctoral studies
Mireille Régnier	Director - Inria Lille – Nord Europe research center
Stéphane Huot	Scientific Officer - Inria Lille – Nord Europe research center
Philippe Pernod	Director of Research – Centrale Lille
Stéphane Brisset	Director in charge of Masters & PhD - Centrale Lille
Andreas Kaiser	Director of Research - Yncréa
Laurence Duchien	Coordinator for relations with the doctoral college - ULille
Joel Cuguen	Director of the Doctoral college
Manuel Davy	Founder and CEO of Vekia (spin off CNRS / INRIA) Leader for companies in « Cité de l'IA » (MEDEF)
Hélène Selosse	Head of the doctoral office - ULille

## Evaluation criteria

The selection phase will be jointly organized by the *AI\_PhD@Lille* committee and doctoral schools, common evaluation criteria will be used to select the best subject-candidate pairs.

Criterion	Mark	Comments
<b>Evaluation of research project</b>	<b>50%</b>	
Relevance for the <i>AI_PhD@Lille</i> or the <i>AI_Engineering_PhD@Lille</i> scientific programs	20%	The subject should fit within the scope of the <i>AI_PhD@Lille</i> or the <i>AI_Engineering_PhD@Lille</i> programs
Originality, innovation and added-value expected	15%	Evaluation of these aspects with respect to the state of the art and industrial development
Quality of supervisor(s) profile	15%	CVs of the supervisors, previous PhD students
<b>Evaluation of the candidate</b>	<b>50%</b>	
Previous academic performance	20%	Academic education and training, academic excellence (incl. prizes, publications, participation in international programs such as Erasmus), double or joint degree(s)
Experience in research (publications)	10%	Research environments within and outside of the Higher Education sector, as well as sectors and organizations which are impacted by research outcomes
Ambition / Motivation	10%	Knowledge of the environment of the position they are applying for
Subject-candidate adequacy	10%	Adequacy of the candidate's profile with the research subject and for their future career

## Additional information

### Program from University of Lille and Inria

University of Lille and Inria proposed in September 2019 the program [AI\\_PhD@Lille](#).

**The general research vision** of this program centers on human-friendly approaches to AI that address the question of **acceptability**. Acceptability requires providing explainable results with AI, which leads to a first key challenge: the system should be understandable for users and capable of explaining why a prediction or a decision is made. This means making AI understandable to all users and enabling individuals and communities to take advantage of the tools provided by AI to develop smarter behavior and more inclusive reasoning and action dynamics. This is an interdisciplinary challenge that a large university can meet as it exploits its multiple forces.

To reach this goal of acceptability, two complementary aspects are crucial:

- i/ at the heart of AI, providing intelligible explanations for predictions and decisions;
- ii/ in the interface between users and AI, transferring the AI approach to fields of application.

If you need further information, do not hesitate to contact: [Clarisse.Dhaenens@univ-lille.fr](mailto:Clarisse.Dhaenens@univ-lille.fr).

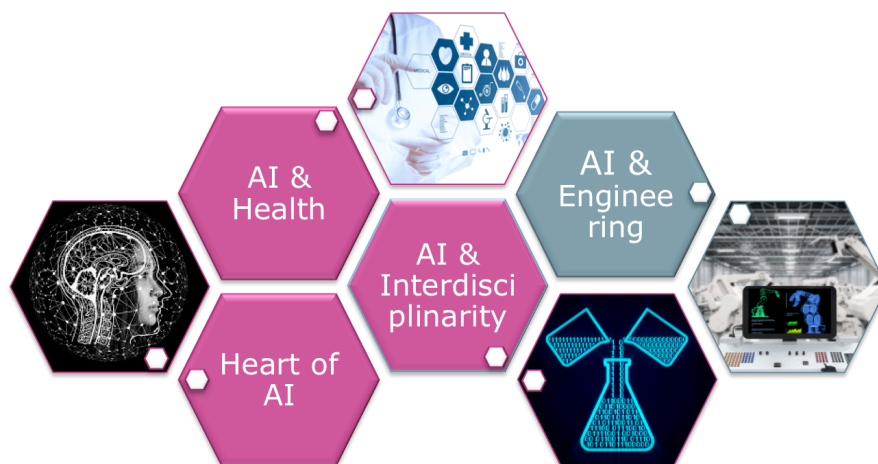
### Program from Centrale Lille

Artificial Intelligence spreads and disseminates very quickly in all fields, providing big changes and numerous new opportunities. In particular, AI impacts all research and application areas of engineering, and this effect will continue to increase in the near future.

For this reason, AI is a key element in the research strategy of all the actors in Lille area which cover several important fields such as smart transport, internet of energy and smart grids, smart construction and smart city, industry 4.0, smart agriculture, smart environments, medical engineering, etc. All these fields, which emerges from traditional engineering fields where dissemination, adaptations and development of AI concepts and approaches are needed.

In this context, the strategy of the actors gathered in the program [AI\\_Engineering\\_PhD@Lille](#) is to capitalize on their deep knowledge, experience and human resources in the engineering traditional fields of their joint laboratories, for the dissemination, adaptation, and new development of AI concepts and approaches

If you need further information, do not hesitate to contact: [Philippe.Pernod@centralelille.fr](mailto:Philippe.Pernod@centralelille.fr).



Articulation between the two programs [AI\\_PhD@Lille](#) and [AI\\_Engineering\\_PhD@Lille](#)