



Competition for the benefit of all



Employment offer

Software engineer– Development and audit (M/F)

Digital Economy Unit

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As an independent administrative authority, the *Autorité de la concurrence* ensures the proper competitive functioning of France's economy. It contributes to the regulation of competition at European and international levels. Its cross-disciplinary competence leads it to intervene in all economic sectors.

It has four major missions:

Fight against anticompetitive practices (cartels and abuse)

Control mergers (mergers and acquisitions)

Issue recommendations (opinions to public authorities and economic stakeholders)

Regulate certain legal professions

Ranked in the Elite category (1st) for the past 7 years by the *Global Competition Review*, the *Autorité* is also at the forefront of emerging issues related to the digital economy.

ENVIRONMENT OF THE POSITION

The accelerated digitisation of the economy is bringing about profound transformations: the emergence of platforms benefiting from considerable network effects, the disruption of physical distribution through online sales, technological innovations brought about by artificial intelligence and data science... All these phenomena are upsetting the rules of the competition and creating new challenges for the *Autorité de la concurrence*, which has decided to create a Digital Economy Unit at the heart of the *Autorité's* Investigation Services that will act in a cross-dimensional way, in a similar manner to the Economics Unit and the Inspections Unit.

The Investigation Services, which are supervised by the General Rapporteur, include some 100 permanent case officers (*rapporteurs*). They include five units for handling litigation cases, as well as the Regulated Professions Unit, the Mergers Unit, the Inspections Unit and the Economics Unit. The Digital Economy Unit will be placed under the responsibility of the General Rapporteur. It consists of a

head of unit and three experts, who have the status of case officers, which enables them to exercise the investigation powers provided for by the Commercial Code (*Code de commerce*) (for instance the power to investigate, participation in dawn raids).

DESCRIPTION OF THE POSITION

The engineer will be in charge of developing new investigation tools based on algorithmic technology, big data and artificial intelligence using Open Source Intelligence (OSINT) data or data collected through the *Autorité's* investigative powers¹.

In these missions, the engineer will support all the Investigation Services either through the development of new analytical tools or by participating directly in the investigation of cases, in cooperation with the Antitrust or Mergers Units. They will for instance implement protocols for the audit and test of 3rd party algorithms or of platforms.

Finally, within the Digital Economy Unit, the engineer will also carry out cross-disciplinary missions: preparing articles, studies or actions related to data and algorithm issues, organising seminars and training courses, in line with the work already carried out on big data, online advertising and algorithms² in particular.

Given that the unit has just been created, the missions for which it will be responsible are very open and the team will therefore be a real source of proposals in this area.

Within this framework, the engineer will:

- ✓ develop tools and provide support to the Investigation Services in analysing algorithms (audits and test protocols) and large data sets.
- ✓ participate in the missions assigned to case officers: investigation (collection of evidence, interviews with witnesses, etc.), unannounced inspections and, where necessary, investigation of cases with a partner (decisions on the merits of a case, requests for interim measures, requests for opinions);
- ✓ cooperate with counterparts in national and international administrations, as well as with the scientific and academic communities;
- ✓ carry out a technology watch on digital subjects.

They may also be tasked with:

- ✓ participate in the *Autorité's* discussions on issues related to the digital economy: collecting information, analysing and drafting studies and opinions.

PROFIL DU CANDIDAT

The candidate should have excellent knowledge in the following fields: machine learning, data extraction and processing, as well as sound knowledge of programming (Python, R and other languages) and special libraries. An understanding of and keen interest in the scientific and technical challenges of the digital economy are essential. Relevant professional experience relating to this sector would be an asset.

¹ For example, questions asked may relate to the role of data in preserving or gaining competitive advantage, to analysing behaviours used to prevent or increase data collection, collecting and analysing prices, quantities or text data on the Internet, analysing tender databases, pricing algorithms or recommendations, and the automated analysis of documents, etc.

² Etudes disponibles sur le site de l'Autorité

The candidate must be capable of working autonomously and show initiative. They will, however, regularly report on the progress of their work and contribute to consolidating shared skills and culture with their peers. The candidate must have excellent interpersonal skills as well as a strong taste for working in close cooperation. Responsive and thorough, they must show that they are able to meet deadlines in processing the cases entrusted to them.

The candidate should have an excellent command of the French language, both written and spoken.

APPLICATION AND RECRUITMENT PROCEDURES

The position is open to both tenured (secondment on contract) and contract (indefinite-term) personnel.

Send applications (curriculum vitae and cover letter) by e-mail no later than 05/03/2020 to recrutement@autoritedelaconcurrence.fr

Please note on your application the reference of the offer: "Rap.Data.SNUM.2020"

For further information, contact

Camille Reynaud, Recruitment Officer at the Human Resources Office, +33 (0)1 55 04 00 20

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