Position of Associate Assistant Professor in Multiagent Systems
Henri Fayol Institute
Intelligent Systems and Informatics Department

Context
Mines Saint-Étienne, an IMT graduate school under the supervision of the Ministry of the Economy and Finance, is responsible for training, research and innovation, transfer to industry and scientific, technical and industrial culture.

Mines Saint-Étienne represents: 1,800 engineering students and researchers in training, 420 employees, a consolidated budget of €50 million, two campuses (one in Saint-Étienne (Loire) with three sites, one located in Gardanne (Bouches-du-Rhône), 5 training and research centres, 7 research laboratories, a scientific, technical and industrial culture centre ("La Rotonde") and development projects in France and abroad.

The Henri Fayol Institute is a training and research center that brings together Mines Saint-Étienne's teacher-researchers in industrial engineering, applied mathematics, computer science, environment and management. The Henri Fayol Institute contributes to decision support for companies and territories through a quantitative, IT and managerial vision for sustainable development purposes.

The Intelligent Systems and Informatics (ISI) department is one of the four departments of the Fayol Institute. ISI aims to contribute to the development of computational models, algorithms and architectures for the interconnection of the physical, digital and social worlds. This objective is considered in the context of the development and deployment of increasingly complex socio-technical applications in domains such as the "Industry of the future" and the "City of the future". To validate, enhance and disseminate the results carried out within the institute in real conditions, two technological platforms have been developed. The first is dedicated to the city of the future (Territoire¹ platform) and the second to the industry of the future (ITM'Factory² platform):

Scientific project
The scientific project of the newly hired researcher will contribute to the research in integration, engineering and simulation of intelligent systems, in the domain of Artificial Intelligence applied to socio and cyber-physical environment such as industry 4.0, smart city. The developed research activities will more particularly concern one of the following area or be at the intersection of both:

- Semantic web and knowledge representation, to address the problems of representation and reasoning on knowledge graph, web of data
- Multiagent coordination and simulation to address decentralized and automated decision by autonomous agents in complex systems (simulated or real ones)

Candidate profile
The candidate must hold a PhD with knowledge of multiagent systems models and technologies and/or multiagent based simulation. Good knowledge on Web of Thing or Internet of Thing, on the Web architecture and technologies will be appreciated.

¹ https://territoire.emse.fr/
² https://www.mines-stetienne.fr/entreprise/itm-factory/
The candidate should be capable of covering a relatively large spectrum within the teaching of computers sciences and more specifically: algorithmic, programming (object, web, mobile), engineering and software architecture, internet of thing, artificial intelligence, semantic web.

**Recruitment conditions**
- 12-month research engineer position on fixed-term contract
- Position based in Saint-Etienne (Loire).
- no later than 1 December 2020

**How to apply**
CV + cover letter should be sent at first to Amandine HIRONDEAU, adjoin of Director of Personnel and Human Resources and copy at Flavien BALBO: amandine.hirondeau@mines-stetienne.fr and flavien.balbo@mines-stetienne.fr

Deadline for application : Before October, 15th 2020 by mail

**For additional information**
For any information on the position, please contact:
- Henri Fayol Institute director
  Bruno LÉGER, Tel + 33 (0)4 77 49 97 37, email: bruno.leger@emse.fr
- Intelligent Systems and Informatics department responsible:
  Pr. Flavien BALBO, Tel +33 (0) 04 77 42 01 71, email: flavien.balbo@emse.fr

For other administrative information:
- Amandine HIRONDEAU
  Tel + 33 (0)4 77 42 01 03, email: amandine.hirondeau @emse.fr