2018-00266 - Extension of a collaborative platform for managing citizen debates

Contract type: Public service fixed-term contract
Level of qualifications required: Graduate degree or equivalent
Function: Temporary scientific engineer
Level of experience: Recently graduated

Context
The engineer position takes place in the context of a collaboration with the startup Bluenove (http://bluenove.com/).

Bluenove develops the collaborative platform Assembl to manage citizen debates about societal issues. The collaboration with the INRIA team Almanach aims to extend Assembl with intelligent modules for a better management and exploitation of the discussions. These modules will in particular rely on fine-grained linguistic analysis of the discussions using NLP tools and will need to be integrated within Assembl.

Assignment
Assignments:

The main objectives of the position are:

- to facilitate the integration of NLP and AI modules within Assembl (clean APIs, access to forum data and external data [linked data, data streams, aggregators], communication with participants and moderators)
- to participate to the evaluation of several technologies, for example for managing chatbots or for using speech recognition
- to help the INRIA-Bluenove post-doctorant in software developments and experimentations.
- to progressively integrate the first modules in production mode for a few test debates
- to get feedback from the participants about these modules.

Collaboration:
The recruited person will work in close interaction with the postdoctorant recruited for the INRIA-Bluenove collaboration, but also with the development teams at Bluenove and with some members of the Almanach team (in particular Eric de la Clergerie).

Main activities
Examples of activities:

- Analyse the requirements of [partners, clients, users]
- Propose **** solutions for ****
- Develop programs/applications/interfaces of **** ****
- Design experimental platforms ****
- Write documentation
- Write reports
- Write ****
- Test, change up until validation
- Distribute the *** * to **** via ****
- Provide user training for the service's main clients
- Lead a user community
- Present the work's progress to partners, ****to an audience of financiers ****
- Other ****
Skills

Technical skills and level required:

- excellent programming skills, specially on WEB technologies
- javascript/CSS frameworks, [SQL] databases, WEB APIs [REST, websockets, ...], XML/RDF
- knowledge in NLP and/or Machine Learning
- knowledge of Python and/or Perl

Languages: good level in French or English

Relational skills: working with a team

Other valued appreciated:

Benefits package

- Subsidised catering service
- Partially-reimbursed public transport

Remuneration

Defence Security:

This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.