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  
**Fonction**: Temporary scientific engineer  
**Level of experience**: Recently graduated

**About Inria**
Inria, the French National Institute for computer science and applied mathematics, promotes “scientific excellence for technology transfer and society”. Graduates from the world’s top universities, Inria’s 2,700 employees rise to the challenges of digital sciences. With its open, agile model, Inria is able to explore original approaches with its partners in industry and academia and provide an efficient response to the multidisciplinary and application challenges of the digital transformation. Inria is the source of many innovations that add value and create jobs.

**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**:

- 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 works’ 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.