MEDECINS SANS FRONTIERES

LA FONDATION

14-34 avenue Jean Jaurès
75019 PARIS

Paris, September 28th 2022

The MSF Foundation is a specialised entity created by Médecins Sans Frontières (MSF) dedicated to medical innovation targeting patients living in contexts with limited resources. Ongoing projects relate, among other things, to the use of 3D printing to create personalised prostheses; the development of digital tools for epidemic control and surveillance; and the development of a smartphone application based on machine learning to streamline and automate antibiotic susceptibility testing: Antibiogo.

The Antibiogo project will contribute to the fight against antibiotic resistance, a major public health concern that is expected to cause 10 million deaths per year by 2050.

Antibiogo is a free, open source, offline Android app, that supports non-expert laboratory technicians in Low and Middle Income Countries (LMIC) in measuring and interpreting antimicrobial susceptibility tests, in order to help doctors prescribe appropriate antibiotics to their patients and to provide accurate results that can be used for surveillance purposes.

A first version of Antibiogo that was clinically evaluated across three different sites and countries (Jordan, Mali & Senegal) has been CE-marked since May 2022 (according to the In Vitro-Diagnostic Medical Devices Directive 98/79/EC) as a mobile device application used for the interpretation of antibiograms in resource-limited settings and is being deployed within MSF laboratories.

In parallel, a second version of the app integrating additional features is under development that must be evaluated as well in terms of clinical performances. After app development, a summative usability study will be conducted, starting early 2023. The usability testing specialist will be responsible for this usability study.

Afterwards, a clinical evaluation will be performed through additional countries and settings (including central and peripheral bacteriology laboratories). The results of the studies will be used to obtain CE-marking for this second version of Antibiogo according to the new In-Vitro Diagnostic Medical Devices Regulation (EU) 2017/746.

Different teams work in collaboration on Antibiogo under the responsibility of Antibiogo program manager, including the clinical team, the product team, and the quality insurance team.

In this framework, we are looking for a **Usability testing specialist** to join the Antibiogo team.

Usability testing specialist (Freelance)

Activities

The Usability testing specialist will be responsible for planning, conducting and analysing the usability study of Antibiogo newest version in Low and Middle Income countries to insure its conformity for the future submission to the new In-Vitro Diagnostic Medical Devices Regulation (EU) 2017/746.

The Usability testing specialist will be reporting to the Program Manager, and collaborating closely with the Product Manager and the Person responsible for Regulatory Compliance In addition, they will collaborate with the local investigators of the clinical studies in the different countries.

The main duties of the Usability testing specialist will be (non-exhaustive list):

- Advise and support the team on usability needs (formative and summative) and related labelling aspects of EU regulation
- Write the testing scenarios and protocol of the summative usability study as per IEC 62366-1 and user experience research guidelines in concertation with product team (manager & designer)
- Conduct the usability study in collaboration with product, quality insurance, regulatory affairs and clinical teams
- Analyse and report results for regulation needs, risk analysis, validation, and user experience impact
- Participate in regular meetings organised with the Antibiogo project team

Profile

Experience:

- 5+ years of work experience in user experience design, usability testing for medical devices or engineering
- Significant experience for conducting usability testing full cycle for software medical device
- Worked in collaboration with multidisciplinary teams such as: clinical, quality insurance and digital product.
- Work experiences in Low and Middle Income Countries is an asset

Languages: Fluent French and English written and spoken

Skills:

- Strong writing and communication for documentation and multidisciplinary teamwork
- Excellent planification and organisation of usability studies
- Understanding and application of In-Vitro Diagnostic Medical Devices Regulation (EU) 2017/746, IEC 62366-1, ISO 62366-1:2015, and ISO 14971
- Knowledge of user experience design and research of digital products
- Strong interest in working in a multi-cultural context

Start date: From mid october (ideally)

Conditions:

- Full time contract as a freelance
- Location: Paris MSF HQ (preferred)
- Travels: International travel in Low and Middle Income Countries will be required to conduct the study
- Duration: 6 months (depending on starting date)

Please send your application to the following address : vanessa.lalouelle@paris.msf.org