ERC PhD position in Public Health / Health Services Research - TopSurgeons project

- ORGANISATION/COMPANY Université Claude Bernard Lyon 1
- RESEARCH FIELD Medical Science; Epidemiology; Public health
- RESEARCHER PROFILE First Stage Researcher (R1)
- APPLICATION DEADLINE 15/06/2021 23:00 - Europe/Brussels
- LOCATION France › Lyon
- TYPE OF CONTRACT Temporary
- JOB STATUS Full-time
- HOURS PER WEEK 37,5
- OFFER STARTING DATE: 01/09/2021 at the latest
- EU RESEARCH FRAMEWORK PROGRAMME H2020 / ERC
- REFERENCE NUMBER TOPSURGEONS N° ERC

A 3 year doctoral position is available at the Claude Bernard Lyon 1 University (HeSPeR Lab: https://www.hesper.fr/en/) to explore the underlying human and organizational factors that influence surgeons' performance and ultimately impact patient outcomes.

The project

The TopSurgeons project, *"Understanding the influence of human and organizational factors on surgeon performance to improve patient outcomes: experimental evaluation of a customized coaching program"* is funded by an ERC Starting Grant 2019-2023 held by Prof. Antoine Duclos. This project aims to 1- Identify the key determinants related to a surgeon's personal condition and/or the operating room environment that can influence his/her performance in terms of patient safety and care; 2- Develop a customized coaching program for surgeons based on the human and environmental factors previously identified, which includes profiling of individual surgeons, tailored modules of improvement and a system to monitor surgical outcomes; 3- Implement and measure the impact of this coaching program on the surgical outcomes of a randomized group of surgeons compared to a control group of non-exposed surgeons. A unique dataset will be collected prospectively from various sources, including the routinely collected data in the hospital data warehouse, sensors worn by the surgeons, and various questionnaires (more details at: https://anr.fr/Project-ANR-17-ERC3-0001).

Desired profile

We are looking for highly talented and motivated applicants with a MPH or MSc. degree in public health, epidemiology, statistics, the humanities or a similar scientific field. Applicants should have graduated in the last 3 years. A solid background in programming and exploratory analysis of various datasets is desired. The post-holder must be creative, rigorous and

dynamic, and must be at ease working both independently and as part of a team. Excellent English skills (speaking and writing) and analytical skills are desired.

Proposed mission

The successful applicant will assist the principal investigator and the Post-Doc in the coordination, execution and valorization of scientific activities related to the project, as follows:

- Participate in the creation and implementation of an individualized coaching program for surgeons, designed to help address intrinsic and/or extrinsic factors that affect their performance
- Participate in the analysis and interpretation of data, in compliance with the standards of scientific integrity
- Remain up to date on scientific/technical advances in the field
- Share and communicate information about the project's methods and findings with the rest of the team, and contribute to reports on the project's progress
- Disseminate and promote the project's findings through scientific publications and oral presentations to the scientific community

This position will be based in Lyon (France), a beautiful and historic city that offers both a high quality of life and a great location. The successful applicant will join a dynamic environment of researchers and teachers in public health.

ADDITIONAL INFORMATION

Position/Remuneration

- Gross salary: 24k euros per year as fixed by national decree
- Starting date: The starting date is flexible; the latest possible start will be 01/09/2021
- Duration: The position will be funded for 3 years by an ERC Starting Grant

- Context: The position will be part of a project team consisting of Post-Docs, PhD students and five other staff members, located at both the Health Services and Performance Research Laboratory of Claude Bernard Lyon 1 University and the Health Data Center of the Lyon University Hospital (Hospices Civils de Lyon)

Benefits

- Working as part of a young and motivated team in a dynamic and inspiring scientific setting
- Professionally stimulating position in an exciting interdisciplinary environment that provides opportunities to network with researchers from diverse backgrounds
- Opportunities to become involved in other clinical research projects, and to develop individual research initiatives
- Lyon's family-friendly environment with its rich opportunities for cultural and outdoor activities
- More information on general conditions for the Lyon University students at: http://www.espace-ulys.fr/en and http://ediss.universite-lyon.fr/foreign-applicants-doctoral-students/

Selection process

Deadline for applications: This position is currently open, and we are actively recruiting candidates. Applicants should apply as soon as possible, and no later than **June 15, 2021 for** consideration.

Start date: We are looking to fill the position as soon as possible, but will be accepting candidates who are able to begin by September 1st 2021 at the latest.

How to Apply: Please send your electronic application to topsurgeons@univ-lyon1.fr (Object: PhD position) in English and pdf format:

- Cover letter (statement of motivation in relation to the proposed research project, summarizing scientific work and main research interest)
- CV (summarizing education, positions, relevant skillsets and other qualifying activities)
- Copies of educational certificates (including the MPH/MSC. diploma) and academic transcript or records
- A complete list of publications including original articles and conference abstracts
- At least one letter of recommendation with name and contact details of referee (name, relation to candidate, e-mail and contact details)

In assessing the applications, special emphasis will be placed on the academic training as well as the motivation and personal suitability of candidates. Interviews with the best qualified candidates will be arranged for final selection.

About Us

Claude Bernard Lyon 1 University provides teaching for 45,000 students a year in the fields of health, science and technology (https://www.univ-lyon1.fr/en/). It is part of the most important French University system outside of the Paris region. Claude Bernard Lyon 1 University has a well-established intellectual reputation throughout the world, and is continually pushing the boundaries of knowledge and promoting education through research. The University has 65 state-funded research units and is committed to more than 80 European Union projects. **The Health Services and Performance Research Laboratory** (HeSPeR, https://www.hesper.fr/en/) is located at the Rockefeller campus of the Claude Bernard Lyon 1 University. HeSPeR's ambition is to advance knowledge related to healthcare services by investigating their performance in terms of quality, safety, efficiency and accessibility for patients. The laboratory is a highly dynamic international environment composed of an interdisciplinary team that includes researchers in public health, medical and surgical specialties, as well as the humanities.

Hospices Civils de Lyon (HCL) is France's second university hospital. HCL includes a staff of 23,000 of which 5,000 are physicians and over 11,000 are nursing staff. It federates 14 facilities, providing emergency, medical and surgical services in a wide range of disciplines. HCL makes contributions to research and innovation in partnership with Claude Bernard Lyon 1 University. **The Health Data Center** of the HCL is responsible for managing and processing the data warehouse of the host institution for both research and care evaluation purposes. The center brings together skills in data science to manage, link and analyze large datasets from various sources.

REQUIREMENTS

Required Research Experiences

- RESEARCH FIELD Public health, Epidemiology, Health services research, Data science
- YEARS OF RESEARCH EXPERIENCE 1 - 4

Offer Requirements

- REQUIRED EDUCATION LEVEL : Other: MPH, MSc. or equivalent
- REQUIRED LANGUAGES: ENGLISH: Excellent / FRENCH: Basic

Skills/Qualifications

- Master in public health, epidemiology, statistics, data science or a related field with a strong quantitative background
- Skills for managing, linking, validating, analyzing and visualizing data from various sources (data warehouse, connected sensors, questionnaires)
- Knowledge of programming languages (e.g. SAS, R, Python, SQL)
- Work experience in health services research, public health or epidemiology
- Fluency in English both spoken and written, basic French
- Mastery of written and oral presentation techniques
- Strong analytical and summarizing skills, rigorous, motivated and energetic
- Capable of independently carrying out creative and high quality research with tenacity
- Team spirit and ability to communicate and manage relationships with internal and external stakeholders
- Confidentiality and discretion about manipulated data and teamwork in progress
- Scientific integrity, transparency and compliance with the PI's instructions