MIP - EA4334
Le Mans Université
Av. Olivier Messiaen
72085 Le Mans, France

Postdocotral Fellowship

BIOpsychosocial approach of the CAncer RElated FAtigue: BIOCARE FActory

A 1-year fully funded Posdoctoral Fellowship is available at Le Mans University (France) under the supervision of **PhD Baptiste Morel** and **Pr Abderrahmane Rahmani**.

Applicants should have a PhD and strong research background in exercise science in clinical context. Knowledge and practical experience in physiology and/or biomechanics experiments in a clinical setting with patients is mandatory. The Postdoctoral Fellow will become part of a unique research environment within the multidisciplinary team of the BIOCARE Factory project as well as the laboratory "Movement, Interaction, Performance" (mip.univ-nantes.fr). As a Postdoctoral Fellow you will be responsible for:

- Being the interaction between the care teams, the patients and the laboratories;
- Independently carrying out research;
- Organizing participant's protocols within an experimental design;
- Collecting and analyzing data including physical testing, questionnaires and interviews;
- Working in collaboration with the interdisciplinary project team;
- Reporting the results in international peer-review scientific journals and conferences;
- Presenting at MIP journal Clubs and internal scientific events.

There are no citizen restrictions but **speaking French (B2 level) is mandatory to interact with the patients**.

Conditions of Employment:

- Gross monthly salary depending on experience; up to 34 189 € / year.
- Annual leave entitlement: 45 days / year.

Application modalities

Applications should include a cover letter discussing your interest in the position and stating the date when you expect to be available, CV and the name and contact information of two academic references. Email documents to both baptiste.morel-prieur@univ-smb.fr and abdel.rahmani@univ-lemans.fr. This is an ongoing recruitment; the Postdoctoral Fellow should start as soon as possible (fall 2022).

Project Summary

Cancer-related fatigue (CRF) is the most common side effect of cancer and cancer treatment. Numerous parameters have been evidenced to be related to CRF across biological, physical, psychological, social and/or behavioral dimensions. Although CRF has been studied for many years, the majority of previous studies focused on one dimensions with cross sectional deisgn. These are the two main obstacles that limit the understanding of CRF mechanisms.

BIOCARE FActory is a multicentric prospective study that consist of an 18-month follow-up of 200 women diagnosed with breast cancer. It involves 3 research laboratories, 2 clinical structures and started in November 2021. Every 6 month from diagnosis an experimental session is conducted including interview, cognitive tests, postural control tests, neuromuscular fatigability tests and a cardiorespiratory fitness test. Clinical and biological data are collected during medical follow-ups. Participants also complete questionnaires to assess psychological aspects and quality of life and wear an actigraphy device. Using a structural equation modeling analysis, the BIOCARE Factory project will aim at building a Biopsychosocial model of CRF (full details in the published study protocol).