



## **Pharmaco-epidemiologist junior / or PhD fellow / or Postdoctoral fellow**

Fixed-term contract (1 year, renewable twice; or 3 years for a PhD fellow), full time

### **Research laboratory presentation:**

Our research team in Pharmacoepidemiology is located in the department of Clinical Pharmacology, at Toulouse school of Medicine, University of Toulouse III (South-West France). It belongs to INSERM unit CERPOP/team SPHERE ( <https://www.u1027.inserm.fr> ) and Toulouse University Hospital (CHUT). For several years, we have been working on reproductive risks of drugs. In 2004, we have created EFEMERIS database ( [www.efemeris.fr](http://www.efemeris.fr) ), the first French database on prescriptions during pregnancy in general population which currently records anonymous data for more than 150,000 mother/ pregnancy outcomes. Children from EFEMERIS cohort are followed up until 2 years of age. In 2010, we set up the POMME cohort that records drug prescriptions during prenatal life and during childhood. The team also performs pharmaco-epidemiological studies using national databases (such as the SNDS/EGB) and is involved in developing new methodological or statistical approaches.

Our team is the leader of the French network “REGARDS” (REproduction Gestation And Risk of DrugS) and is a partner of the European Consortium ConcePTION (<https://www.imi-conception.eu/>). ConcePTION aims to “build an ecosystem for better monitoring and communicating safety of medicines use in pregnancy and breastfeeding”.

### **Research project description:**

The candidate will be involved in a highly collaborative project between the ConcePTION consortium. Our team is leading two research projects within ConcePTION.

The first project is investigating one of the major issues that arises when using large administrative health care data sources which is the absence of indication for medication use. This issue is leading to important limitations for the interpretation of pregnancy medication safety studies. The project aims at developing a general framework to disentangle several indications for a same medication in large administrative healthcare data sources. The motivating example for this methodology is applied to medications used in the treatment of neuropathic pain during pregnancy.

The second project is investigating another issue which is the limited statistical power to evaluate risks of taking medications for rare diseases during pregnancy. The project aims at developing novel statistical methods to handle small sample size. The motivating example for this project is medications used in the treatment of multiple sclerosis and systemic lupus.

Both projects will pool data from several European countries.

The candidate's work will be done in close collaboration with other members of the team working on the projects, especially a postdoc statistician, a data-manager and a senior pharmacologist.

General responsibilities include design and programming of epidemiological analysis, communicate research and findings in a clear and concise manner. The candidate will report/present findings during national and international conferences; and in per-reviewed scientific journals.

### **Qualifications required:**

- Academic requirements: Master 2 or a PhD degree in pharmaco-epidemiology or related fields
- Data management and statistics skills: Strong epidemiological and biostatistics skills, SAS and/or R programming experience are mandatory; experience of large health care administrative data sources will be highly prioritized
- Language requirements: Fluent English (reading, writing and speaking) is mandatory as English is the working language between the ConcePTION consortium
- Strong organizational and communication skills, scientific rigor.

### **Employment**

Starting on September 2021 or as early as possible thereafter, the position is funded for 3 years.

The application should include:

1. Letter of motivation with a short description of the applicant's previous research
2. Curriculum vitae, including a description of relevant skills and experiences

### **Contact**

Application should be sent to Christine Damase Michel ([christine.damase-michel@univ-tlse3.fr](mailto:christine.damase-michel@univ-tlse3.fr))