One-Year Postdoctoral Position in Microsimulation and Decision Modelling

We are pleased to announce a one-year postdoctoral research position focusing on modelling and health economics. The postdoctoral researcher will adapt an existing microsimulation model implemented in R to evaluate breast cancer screening programmes and/or innovative treatment strategies.
The model integrates multiple sources of information:

- clinical trial data on treatment effectiveness;
- treatment costs;
- individual preferences regarding the trade-off between health and income, in order to assess the impact of disease and intervention on individuals' welfare (using data already collected through two surveys conducted by the research team).

The work will involve close interaction with clinical collaborators to identify relevant effectiveness inputs and ensure the model reflects real-world practice.
The model is based on an innovative method that aims to take into account the distributional issues raised by the allocation of health resources (See Samson et al. 2018)[1].

Collaborative environment
The postdoctoral researcher will join an interdisciplinary team including: Brigitte Dormont (Université Paris-Dauphine, PSL), Pauline Chauvin (Université Paris Cité), Shaun Da Costa (Paris School of Economics), Marc Fleurbaey (Paris School of Economics), Hélène Huber (Université Paris 1 Panthéon-Sorbonne), Stéphane Lucchini (Université Aix-Marseille), Anne-Laure Samson (Université Paris 2 Panthéon-Assas), Erik Schokkaert (KU Leuven), Clémence Thébaut (Université de Bordeaux) and Thomas Vermeulin (Centre Henri Becquerel).

In particular, the postdoc will work closely with Pauline Chauvin, Clémence Thébaut and Brigitte Dormont and interact with clinical teams when needed. The position is hosted at Université Paris-Dauphine (LEDA–LEGOS) and co-funded by Institut Curie (France). Remote work is possible, with regular meetings in Paris.

Expected profile and skills:
This position is intended for early-career researchers who have a PhD in biostatistics, computational modelling, health economics or a related quantitative field. Key qualifications include:

- expertise in microsimulation and/or decision-analytic modelling;
- or solid skills in econometrics;
- or solid skills in biostatistics;
- proficiency in R programming;

[1] Samson AL, Schokkaert E, Thébaut C, Dormont B, Fleurbaey M, Luchini S, Van de Voorde C. Fairness in cost-benefit analysis: A methodology for health technology assessment. Health Econ. 2018 Jan;27(1):102-114. doi: 10.1002/hec.3515.

Experience in health economic evaluation, HTA or decision modelling would be advantageous but is not required.
The working language is English, but knowledge of French would be an asset.

The position is offered for a fixed term of one year, with a flexible start date. Start dates are flexible, but ideally the position would begin in September 2026.

Applications and contact

The deadline for applications is April 15.

For further information, please contact Pauline Chauvin (pauline.chauvin@u-paris.fr) and Clémence Thébaut (clemence.thebaut@univ-bordeaux.fr)
Applications should include a CV, a brief statement of research interests and contact details for references.