**Job Role: Quantitative Pharmacology – (Senior) Modelling and Simulation Scientist**

**About Physiomics:**

Physiomics plc (AIM: PYC) at its core is a quantitative pharmacology (modelling and simulation) and data science consultancy supporting the development of new therapeutics. From discovery through to the clinic, we support our clients derive insights from both their R&D and external data sources to enable smarter design and decision making – helping them accelerate and de-risk drug development.

The Company has a high-profile brand and an established customer base of clients in the UK, Europe and North America, ranging from emerging biopharma to top-tier pharma and leading research institutes. We have now completed over 120 projects and have modelled over 125 targets & drugs.

The business is now in a period of growth, with a primary focus around expanding its core modelling and simulation service business, supporting clients across a wider array of therapeutic areas, modalities, and in different geographies. We are also building adjacent / complimentary service lines that leverage our existing capabilities to offer broader integrated solutions to our clients. These new service lines include the recent launch of our Biostatistics services.

**About The Role:**

The successful candidate will join Physiomics’ Quantitative Pharmacology and Data Science consulting team to help us deliver high quality modelling and simulation solutions to our clients. This role is a great opportunity for a motivated individual looking to work on a variety of modelling projects with real impact. They will get the opportunity to both support and lead projects for a range of clients, from emerging to top tier biopharma and research institutes, as well as projects across the drug development phases and across various therapeutic areas. The role offers fantastic career development opportunities, not only through on the job and external training, but provides the opportunity to be involved in the growth of the business, developing new capabilities and expanding teams.

**Key Responsibilities:**

* Report to the Head of Quantitative Pharmacology and Data Science
* Function as part of a multidisciplinary team to deliver high quality quantitative pharmacology modelling and simulation projects for our clients.
* Carry out research to understand disease pathways and therapeutic mode of action.
* Handle, analyse and interpret experimental data from preclinical and clinical studies, either provided by clients or sourced from scientific literature.
* Develop, refine, or implement existing models, including but not limited to: NCA analysis, PK/PD, popPK, PBPK and QSP models.
* Translate modelling outcomes into actionable insights that guide the client’s understanding and decision-making.
* Collaborate and attend regular meetings with clients, delivering progress update presentations and comprehensive project reports.
* Support Head of Business Development and Head of Quantitative Pharmacology and Data Science with client engagement, supporting the solutioning of new consultancy projects.
* Keep abreast of modelling trends, best practice and regulatory requirements across drug development through attendance of events, training and self-learning.

**Qualifications, Experience and Behaviours:**

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|  | Essential | Preferrable |
| Qualifications | PhD in a subject where mathematical/statistical modelling of biology/pharmacology was conducted | PhD in one of the following: Quantitative Systems Pharmacology, Pharmacometrics, Applied Mathematics, Chem/Bio-Informatics, QSAR, HEOR/Epidemiology Modelling |
| Experience | >2 years’ experience providing mathematical modelling & simulation either as a service, or within a biopharma company or research institute. | Experience delivering on PK/PD / popPK / QSP modelling projects |
|  | Experience across preclinical and clinical research & development with a good understanding of the regulatory requirements |
|  | Hands-on experience coding | Experience in R and MATLAB. Experience with data science, including data manipulation, analysis, and visualisation. |
|  | Experience in statistical modelling /biostatistics | Applied experience. Statistical Modelling |
|  | Experience working as part of a team delivering modelling and simulation solutions | Project Management experience |
|  | Experienced with sourcing public domain data sources and literature search approaches |  |
|  | Strong scientific knowledge | Experience in oncology |
|  | Familiarity and awareness of common data and modelling and simulation platforms such as, e.g. Gastroplus, SimCYP, PK-Sim, SimBiology, Monolix | Hands on experience with at least one of these M&S platforms |
|  | Strong oral and written communication skills | Publications within the modelling and simulation domain, or a related disease biology |
| Behaviours | Good communication skills, with experience engaging with both internal and external stakeholders |  |
|  | Solution orientated thinker, with motivation to seek to understand client needs and then formulate a solution |  |
|  | Team player – keen to engage, interact and work as part of a team |  |
|  | Desire to innovate and to promote the utility of modelling and simulations approaches within the pharma industry |  |

**Working at Physiomics:**

Physiomics is small friendly company with flexible work policies. We offer a competitive salary and benefits, including Private Medical Insurance. The company is located within Milton Park, Oxfordshire, which offers good transport connections. We operate a flexible working policy but ideally candidates will be able to spend at least one day each week on-site (negotiable for the right candidate). Further details about the company can be found on [www.physiomics.co.uk](http://www.physiomics.co.uk/).

If you wish to find out more, or apply for this role, please contact: [info@physiomics.co.uk](mailto:info@physiomics.co.uk)

For applications, please provide a copy of your CV.