

# An exciting opportunity in Research

Lhasa Limited is a not-for-profit company and educational charity with an enviable reputation for collaboration. Its world leading Derek Nexus, Sarah Nexus, Zeneth and Meteor Nexus software systems are becoming industry standards for toxicity, chemical degradation and metabolism prediction. Lhasa Limited also offers Vitic Nexus, a high quality, structure- searchable chemical database that can be used to develop predictive toxicology models and is participating in several, high profile EU research projects using this software.

## Principal Scientist Drug Metabolism

To £51,975+ 34 Days Holiday + Pension

### What do we offer?

An exciting opportunity exists for a drug metabolism scientist to work in the Research Group alongside Chemoinformaticians providing the scientific input needed for the development of *in silico* ADME (absorption, distribution, metabolism, elimination) models for small molecules suitable for prediction of toxicity based upon exposure.

### What is the role?

The successful applicant will provide scientific expertise to support the development of *in silico* models of exposure based upon chemical structure. This is a highly collaborative position where close engagement with internal Chemoinformaticians and with external scientists will be key aspect of the role.

The applicant would apply a deep understanding of the underlying metabolic science both theoretically and practically, in order to support the development world-leading knowledge-based and machine learning predictive systems.

### Who we want?

Applicants should be educated to degree level or equivalent in chemistry, biology or a related discipline and possess a good understanding of chemical structures. A PhD or equivalent experience in drug metabolism is essential and cover a practical understanding of *in vitro* and *in vivo* methods used to derive key pharmacokinetic parameters.

Applicants will have a firm understanding of the theories behind PK modelling, and demonstrate the ability to think creatively, and the drive to deliver practical solutions.

Given the collaborative nature of the role, it is essential that the applicant is able to travel internationally and may be required to work remotely on member sites.

Lhasa Limited is deservedly proud of the benefits offered to its employees that include 34 days annual leave (plus public holidays) and a generous pension scheme. Salary will be in the range of £38,675 - £51,975 p.a. plus benefits depending on qualifications and relevant experience

**Job reference number: LL/19/2014. Closing date for applications: Friday 22nd August 2014**

For further information on Lhasa Limited and to obtain an application pack, please visit [www.lhasalimited.org](http://www.lhasalimited.org)



shared **knowledge** • shared **progress**

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# Principal Scientist – Drug Metabolism Job Description

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## Grade 8

### Summary of the Role

This is a full-time role within the Research Group to identify and develop predictive *in silico* models of ADME that address the needs of our members. This desk-based research role requires a candidate with a strong understanding of quantitative PK/PD modelling and experience of using *in silico*, *in vitro* and *in vivo* methods to determine both exposure and metabolites of small molecules. The ideal candidate will be highly collaborative, working closely with both internal Chemoinformaticians and external scientists driven by a strong desire to crystallise data into knowledge.

### Reports to

- The Principal Scientist will report directly to the Director of Science

### Main Responsibilities

- Scientific lead for internal efforts to develop *in silico* pharmacokinetic (PK) models suitable to inform predictions of toxicity;
- Identify and interpret significant trends within data relating ADME properties to structures;
- Manage and deliver research activities within the Research Group;
- Manage and deliver commissioned external research activities in areas consistent with company strategies and in support of the company's charitable aims;
- Foster a team-based culture, ensuring positive interactions with other teams and with Lhasa members and external collaborators. This may involve working on member sites for extended periods of time;
- Contribute scientific opportunities for the underlying research base of the company;
- Provide scientific leadership, support and advice for other departments as appropriate;
- Responsible for his/her own work planning against objectives set in agreement with the Director of Science;
- Provide mentoring for scientific staff where appropriate.

### Communication

- Represent and promote the scientific interests of the company via the publication of papers and scientific presentations;
- Facilitate links with professional and regulatory bodies and commercial organisations;
- Participate in the activities of Lhasa Limited in external consortia and expert groups in support of the company's charitable aims;

## **Other**

- Undertake additional tasks and responsibilities which may be reasonably expected of the role as necessary to achieve the objectives of the Research Group and company goals.

## **Policies and procedures**

- To comply with all relevant company policies and procedures.
- To complete all documents and records as required by the company policies and procedures.

# Principal Scientist – Drug Metabolism Candidate Profile

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## Grade 8

### Education and Qualifications

- Degree in drug metabolism, chemistry, biology or related subject Essential
- PhD or equivalent post-graduate experience in the field of drug metabolism Essential

### Skills and Knowledge

- Good understanding of chemical structures Essential
- Strong understanding of the methods and theory behind pharmacokinetic models Essential
- Effective knowledge of drug metabolism parameters, their measurement and interpretation Essential
- Knowledge of metabolic transformations Desirable
- Good knowledge of *in silico* approaches to the prediction of metabolites and sites of metabolism Desirable

### Abilities

- Analytical and problem-solving skills Essential
- Capacity for initiative and innovation Essential
- Communication skills Essential
- Influencing skills Desirable
- Leadership skills Desirable
- Project management skills Desirable
- Team working skills Essential

### Experience

- Experience of interpreting *in vitro/in vivo* ADME data Essential
- Experience in the application of PBPK models Essential
- Experience in the identification and interpretation of structure-activity trends with ADME data Essential
- Experience in the identification and interpretation of metabolite formation Desirable
- Evidence of sustained innovative scientific research output, for example, publications in scientific journals, presentations at conferences, patents, successful research-led knowledge transfer in chemistry or a closely related subject Desirable
- Experience of establishing and working within internal and external collaborations Desirable
- Evidence of proactive autonomous working Desirable

### Personal Characteristics

- Conscientious with good attention to detail Essential
- Able to produce work of a high standard Essential
- Self-motivated and able to work independently Essential
- Personable and able to work in a small team Essential
- Good influencing skills Desirable
- Time management skills (completion of assigned tasks to deadline) Essential
- Written communication skills (clear, concise and accurate written summary of scientific information and work progress) Essential
- Organisational skills (planning of numerous and varied assigned tasks) Essential
- Verbal presentation skills and knowledge transfer (clear, accurate and stimulating oral presentation of scientific information and ability to teach others) Essential