

aSciStance Ltd

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Services

Data analysis and Mathematical modelling

We analyse your datasets, for instance RNA sequencing from cell cultures, to answer your questions, e.g. *what is the effect of a drug treatment on gene expression?* Examples of analysis include data quality control, generating count matrix, dimensionality reduction, differential quantitation, enrichment analysis and network inference.

We develop customised mathematical models describing your biological systems of interest and run numerical simulations to explain your data and answer your questions. For instance, *what would be the effect of deleting a specific gene on cell survival and proliferation? What is the optimal dose and frequency of a drug to tackle a disease?* Modeling approaches comprise, but are not limited to, chemical kinetics, parameter estimation, deterministic and stochastic simulations, constraint-based modeling.

We provide you with numerical results, raw and processed, together with publication quality figures. We also offer side services, such as submitting data to public resources on your behalf.

While services and expectations are discussed before the start, the process will be bespoke and iterative, to make the most of the existing data and our expertise. Indeed new questions emerge during data analysis, and initial aims often evolve.

Training and supervision in data analysis and modelling

If you have access to the needed workforce, but without the required skill-set, we offer personal training and supervision to your relevant staff members. This will be uniquely designed and focussed on your needs and aims.

Scientific document proofreading and improvement

We read and analyse the documents you provide, such as grant applications and manuscripts describing results. We proofread and improve the language, fixing typos, restructuring sentences, and choosing more adequate words. If the initial draft is not in English, we can provide translation from and to a variety of languages. We identify issues in the structure of text and figures, and suggest improvements, to improve the flow, increase their impact and make them easier to read and understand. We also reduce their size if there are over the required word and or size limits.

In the case of biological research, we can also act as reviewers and evaluate the science, providing detailed and precise suggestions to increase the chances of success for grant applications or acceptance for publications.

Prices (discounts available for emerging and developing countries)

Training and supervision in data analysis and modelling

All training and supervision services are charged by the hour. This includes the contact time and the time necessary to put together the material and test it or review progress and prepare suggestions (within the limit of 3 hours of preparation for 1 hour of actual training and supervision). GBP 50 per hour, GBP 375 per day, GBP 1875 per week.

Data analysis and Mathematical modelling

Would we perform all the work ourselves, we propose three models of costing:

1) If the task to perform is standard and small, we propose fixed prices based on the estimated number of required hours ("builder model"). GBP 50 per hour, GBP 375 per day, GBP 1875 per week.

2) If the task to perform is non-standard, requires interactions with you, and/or is of an amplitude making a precise estimation of the required time difficult, we charge by the hour, with periodic evaluations of results and intermediate invoices ("lawyer model"). GBP 50 per hour, GBP 375 per day, GBP 1875 per week.

3) If the services are based on duration (e.g. if you hire us using leftover grants) we charge a lump cost per week ("supply teacher model"). GBP 50 per hour per week. Full-time being 37.5 hours a week.

All extra required expenses such as transportation to your premises, specific storage space, or commercial compute time will be added to the invoices.

Scientific document proofreading and improvement

All writing works are charged by the number of words in the initial documents you provide.

Initial translation:

US/UK English ↔ French: GBP 0.09

US/UK English ↔ Spanish/Catalan/Italian/Portuguese/Turkish: GBP 0.11

Other pairs: GBP 0.13

(surcharges apply if the initial text is an image, a PDF, if a complex layout must be reproduced, if the translation is urgent or must be performed during the night or the week-end);

Certification: + GBP 1 per page.

Hard-copy: additional cost depending on the size of the document and the address to send it to.

Language proofreading (typos, spelling, grammar, sentence structure): GBP 0.07;

Suggestions for text and figure improvement: GBP 0.07;

Scientific proofreading and advices: GBP 0.11.