

Campden BRI (Chipping Campden) Limited

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Job Profile

Data Scientist Production and Processing Research Department

For enquiries concerning this job, please contact:

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Campden BRI provides scientific, technical, and legislative support to the food, drinks and allied industries worldwide. The practical application of technical excellence lies at the heart of all that we do and is supported by our industry-leading facilities, expertise and knowledge.

From analysis and testing and operational support to knowledge management, all our activities are built on an extensive programme of research and innovation steered by industry to ensure maximum commercial relevance.

We provide services to companies all along the supply chain, but offer discounts, access to expert advice and other benefits for those that come into membership. Many of our clients are major blue chip companies and household names.

Locations

The Campden BRI Group operates from three sites in the UK and a fourth in Hungary. The role as advertised will be based at the Chipping Campden site but could require from time to time travel to other Group sites.

The site in Chipping Campden employs 300 full or part-time staff. A further 50 staff are employed at the site at Nutfield, Surrey and 20 staff are employed at our site in Budapest, Hungary. We also have a Consumer Test Centre in Leamington Spa.

Department: Production and Processing Research (PPR)

The Production and Processing Research Department is part of the Technology Directorate which also includes Baking and Cereal Processing, Food Manufacturing Technologies, Brewing Services and Regulatory Affairs departments. The department comprises a team of experienced scientists and technologists with activities spanning agri-research, ingredients research, physical characterisation, process modelling and new processing technology applications.

The role is based in the Imaging and Modelling section, reporting to the Principal Scientist. A key speciality of the section is the application of imaging and image analysis methods to characterise food structure, colour and composition as part of the department's physical characterisation services. The section also manages the department's recently established modelling and simulation service, using Comsol.

The role involves lead responsibility for provision of statistical analysis and advice to scientists and technologists in the Technology Directorate. You will also be responsible for developing and carrying out research projects to apply modern data analysis methods such as machine learning and multivariate statistics to solve food industry problems for Campden BRI's clients, in collaboration with colleagues with expertise in food science and technology. As part of the Imaging and Modelling section, you will also support analysis of image and spectroscopy data from the section's instruments which include X-ray micro CT, Hyperspectral NIR and a DigiEye colour imaging system, and you will also be part of the modelling and simulation team providing support to food industry clients through modelling of their processes.

The candidate would be joining an experienced team that can offer appropriate training and support in this exciting technical field. We are looking for a candidate with strong data analysis skills, and experience of applying these in an experimental science environment. The candidate will be confident with scientific computing, for example statistical analysis, image processing, multivariate statistics and modelling. The role will include client facing work to present results to clients and to work with the team to secure research and contract work. As a department, we are keen to apply modern data analysis methods to deliver benefits for our clients, and would expect the candidate to take a leading role in this.

Duties and responsibilities:

- Planning, execution and reporting of contract research work (50%).
- Provision of statistical advice and analysis to members of Technology Directorate, including design of experiments, analysis of results and drafting of internal procedures (30%).
- Supporting business development activities, including marketing activities and preparation of project proposals (10%).
- Leadership to ensure the quality of statistical design and interpretation of work conducted by the Technology Directorate (10%).

Qualifications and competencies

- Degree or equivalent qualification in a relevant STEM subject.
- High level of knowledge of relevant statistical methods.
- Proficiency with common statistical software and data analysis packages (Minitab, R, or The Unscrambler an advantage).
- Coding skills would be an advantage
- Familiarity with FEM and CFD modelling and simulation methods. (Experience with Comsol an advantage).
- Postgraduate experience in a laboratory or commercial analytical environment. Experience in the food industry would be an advantage.
- Knowledge of image analysis methods would be an advantage.
- Good verbal and written communication skills.

Key skills

- Statistics and data analysis
- Scientific computing
- Modelling and simulation
- Image analysis
- Report writing
- Proposal development
- Good verbal and written communication skills.

Pay and benefits

Salary:	£22,220 - £28,000
Grade:	G3
Holidays:	24 days plus public holidays and a buying/selling holiday scheme.
Pension scheme:	Campden BRI operates a pension scheme
Training:	Campden BRI is committed to ensure all staff receives appropriate training to support their job function and business needs.
Health:	Campden BRI operates a 'permanent health scheme' if you are unable to continue work for health reasons and a 'death in service' scheme.
Others:	Other benefits include subsidised restaurant/vending machine and parking on site.

Further Information

If further information is required, please visit our website www.campdenbri.co.uk