

# Software Developer VeriVin

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## About VeriVin

VeriVin is an innovative startup working on the through-barrier spectroscopic analysis of complex liquids in sealed containers. VeriVin is developing a tool which allows for the unique spectroscopic ID tags of a given batch of complex liquids (oil, honey, milk, wine, whisky and so on) to be uploaded onto a database, analysed and used for quality control and authentication. The spectroscopic ID tag of a sample can be contrasted with the ID tags of other similar samples, aiding to verify its expected quality and provenance. Differences in the fingerprint of the same sample over time can be used to gather information about the status and evolution of the sample - or its possible adulteration.

Our aim is to develop the largest database of spectroscopic data in the food and beverage industry (wines, spirits, olive oils, honey etc.) and be able to track the movement and authenticity of beverages all along the supply chain. We mean to extract meaningful conclusions from the spectral data acquired with our devices by breaking down and analysing millions of spectra using chemometrics and machine learning techniques. So far, VeriVin has focused on the food and beverage industry, but its technology is translatable to any industry in which the through-barrier analysis of complex liquids is applicable.

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## About the project

*VeriVin is in the final stages of developing its first prototype and thus moving from an R&D phase to a commercial product development phase. We now face the challenge of developing the software infrastructure of our system: a front end customer interface able to collect data from various instruments around the world, a database of all the data, software able to discriminate and analyse data using chemometrics/machine learning techniques and finally a system able to display the results of the analysis.*

*We are looking for a talented programmer with knowledge of Multivariate Analysis who is confident in implementing and connecting all the aforementioned systems. The successful candidate will be working in collaboration with another developer. As we are a small company, you will get the opportunity to participate and learn about most parts of its operation.*

*The applicant requires knowledge of Python, experience in front end development and optimally, experience in data science.*

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## About The Team

The core team consists of the CEO, the Business Development Manager and two researchers. We collaborate actively with the Department of Physics at the University of Oxford, having successfully completed a joint Innovate UK funded project and collaborating actively with a PI and PhD and Master's students from the department.

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## About You

We are looking for a talented programmer with a degree (M.Sc, B.Sc) in Computer Science, Engineering or a closely related subject, and a year of experience in a topic related to this application (2 years if B.Sc). Confidence with Python and experience in creating and managing databases are essential. Experience in the implementation of algorithms for Multivariate Analysis is desirable. Knowledge/interest in chemometrics or machine learning are bonus skills.

Candidates that do not possess exactly all the desired skills but are passionate about the role are encouraged to apply.

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## The Role

In this role, you will first get to know VeriVin's current laboratory setup and spectroscopic devices. You will get familiar with the current (licensed) chemometrics platform and understand the challenges of our system. You will then build and manage the growing database of spectra, first collected in-house and then provided by VeriVin's customers and collaborators, and you will collaborate with the team to develop an internal data analysis platform for the chemical analysis of these spectra, meant to substitute the licenced software currently used. Working with the team, you will have the opportunity to further improve upon our current setup, and most importantly, continue towards a solid software infrastructure able to support VeriVin's services in the future.

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## Qualifications

Candidates should possess a M.Sc or B.Sc in Computer Science, Engineering or a similar field. A year of experience in a relevant field is a strong bonus (2 years if B.Sc).

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## Experience

Confidence with Python and experience in creating and managing databases is a must. Experience with Multivariate Analysis is desirable. Knowledge of web frameworks (Flask, Django), MySQL, is also a useful skill.

Other useful skills and interests: Matlab, Data Science, Chemometrics/Machine Learning. Android, GUI dev. (RPi),

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## Location

The work will take place at VeriVin's premises in Long Hanborough, Oxfordshire.

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## Compensation

The salary for this position will be in between £22,000 and £30,000 p.a. depending on experience and qualification.

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## How to Apply

Interested applicants should send an email entitled "Application: Software Engineer" to [info@verivin.com](mailto:info@verivin.com). You will need to supply a CV and a supporting statement explaining how you meet each of the selection criteria for the post using examples of your skills and experience, as well as provide details of two referees.

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## Equality of Opportunity

Entry into employment will be determined only by personal merit and in all cases, ability to perform the job will be the primary consideration. No applicant shall be discriminated against because of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.

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