

# Scientific Software Developer

## Job Offer

### The Company

3Brain is a Swiss deep tech company working on cell-electronic interfaces that link biological networks to computers via custom-made semiconductor microchips. Our mission is to empower life scientists to probe intelligent networks, accelerate biomedical discoveries for the benefit of patients, and create a future more exciting than the present. Our interdisciplinary team of scientists and engineers are constantly pushing the boundaries of engineering for life's complexities. We are ambitious, fast-growing and love to explore. The company's cutting-edge products are used in laboratories and pharma companies worldwide. 3Brain is headquartered in Switzerland nearby Zurich, has a Discovery Unit and production site in Genova, Italy, and an operational unit in the US.

More info: <http://www.3brain.com/about.html>.

### Job description

We are looking for a Scientific Software Developer with strong Object Oriented Programming skills and experience or interest in statistical analysis and front-end development for scientific data visualization. The role includes supporting users on the software and managing user manuals and documentation for customers. The candidate will be part of our growing software team shaping the future of our products. Main responsibilities:

- Develop algorithms and production-quality code that apply appropriate statistical methods to represent, process, and analyse large scientific datasets, with strong attention to numerical accuracy, reproducibility, and correctness of outputs.
- Design and implement strategies to manage high-volume data (e.g., data pipelines, caching, indexing, and efficient file formats) to enable fast visualisation, filtering, and export of results.
- Develop GUI and bioinformatics tools for scientific data representation and visualisation, implementing plots, diagrams, and UX components that help users explore data, interpret results, and make decisions.



- Define, implement, and execute test protocols (unit/integration/system), and support release readiness activities to ensure software quality prior to distribution to users.
- Write and maintain technical documentation and user manuals, producing clear step-by-step instructions, reference material, and visuals that support both new and advanced users.
- Gather and analyse user needs, contribute to requirements definition in cross-functional meetings, and ensure solutions align with customer goals.
- Provide customer-facing software consultancy and technical support on scientific data management, visualisation, and analysis (e.g., troubleshooting workflows, advising on best practices, and translating user needs into actionable improvements for the product team).
- Collaborate with the software and R&D teams on research activities and proof-of-concepts, including evaluation of new algorithms and support in analysing data collected from customers to guide product improvements.

## Required Qualifications

- Bachelor's degree in bioengineering or similar.
- 2 years of experience in Object Oriented Programming (preferable C#, Java), and/or front-end development through GUI/UX tools (preferable data oriented).
- Excellent English language skills, also written communication skills with an ability to translate complex technical concepts into clear and accessible language.
- Collaborative problem-solving ability, action-oriented and results-focused.
- Applicant must have an EU residence permit.

## Additional Qualifications

- Strong preference is given to candidates who have expertise or experience with biological data, particularly those specialising in neurobiology and focusing on data representation or visualisation.
- Candidates with experience in C#, and .NET technologies.
- Knowledge/experience with graphic and sw tools used in technical writing (e.g., Retype, MadCap Flare, GraphPad Prism) for creating visuals, diagrams and structured content.

## What We Offer

- A dynamic and stimulating work environment driven by a desire to build transformational technologies to help others.



- A young, fast-growing company with plenty of opportunities for personal growth and development.
- Working place: **Genova, Italy**. It is a wonderful Mediterranean city with an incredible history, located at the heart of nearby world-renowned places Cinque Terre or Milan, the fashion and business hub of Italy.

To apply send your CV and short motivation letter to [hr@3brain.com](mailto:hr@3brain.com), subject: **Scientific Software Developer**. **Your CV and/or motivation letter must indicate whether you have EU citizenship/work permit or not. It is mandatory that you clarify this.**

