Position: Senior Data Scientist (Team Lead) at the Data Science for Health (DaScH) Laboratory, Toscana Life Sciences Foundation, Siena (Italy).

Duration: 2 years or permanent (negotiable)

WHO WE ARE:

Toscana Life Sciences (TLS) Foundation is a non-profit research bio-incubator accounting for ~400 associates amongst the twenty biotechnology companies incubated and the ten research groups and projects, including two ERC-funded labs, and has a cutting-edge asset of research instrumentation to conduct front-line biomedical research.

To create the biomedicine of the future, TLS is establishing a **Data Science for Health (DaScH) Laboratory** under the strategic direction of Dr. Duccio Medini, partnering up with the broad, existing ecosystem, including the MadLab laboratory led by Dr. Rino Rappuoli and the CERM Foundation led by Prof. Fabio Pammolli.

The **DaScH Lab** will use Computational Immunology, Population Genomics, in-silico Structural Biology, Artificial Intelligence and Bioinformatics to transform biomedical research from early discovery of vaccines and monoclonal antibodies to health technology assessment at the societal level.

WHO WE ARE LOOKING FOR:

We invite applications from innovative, enthusiastic, and forward-thinking Data Scientists who want to use Data Science to solve biomedical problems that matter for human health worldwide.

As our Senior Data Scientist, you will coordinate the DaScH Lab build-up and day-by-day activities, while also contributing to developing the long-term funding strategy of the Lab. In this role, you will coach and mentor a team of research associates and data engineers (including graduates and PhDs), and oversee the DaScH lab activities on multiple projects.

WHAT WE OFFER:

- Unfettered flow of biological data from state-of-the-art biomedical facilities, clinical data from industrial-scale development projects and real-world data from a consolidated network of national and international collaborations.
- A dynamic ecosystem of young investigators with different expertise, from immunology and microbiology to cancer immunotherapy, bioinformatics and topological data analysis, and active projects at the forefront of the fight against COVID-19 and anti-microbial resistance.
- Extensive collaborations with Glaxo Smith Kline (GSK) Vaccines and other pharmaceutical companies, based on the same campus as TLS, and with various industrial and academic research institutions around the world.

WHAT YOU WILL DO:

- Establish collaborations within and outside the biomedical ecosystem, designing and executing data science, bioinformatics and machine learning projects integrating heterogeneous data from multiple sources.
- Coach, mentor and coordinate the research associates and data engineers, contributing to people management duties.
- Attract research funding through grants and platform technologies.
- Develop and apply innovative methodologies to generate knowledge from biomedical data.

- Think and work independently as a scientist: formulate hypotheses, design and conduct experiments, analyze results and disseminate conclusions.
- Contribute to developing TLS's computational and data management strategy/infrastructure.

WHAT YOU'LL BRING:

- PhD degree in Data Science or similar, preferably with five or more years of post-doctoral experience.
- Strong data analytics/machine learning skills, with a keen interest in biomedicine and infectious diseases.
- Strong "drive" to catalyze positive collaborations, supervision and strategic planning skills.
- Previous direct/matrix people management and international leadership responsibilities.
- Strong publication record in three or more of the following areas:
  o Computational Immunology/ Vaccinology,
  o Computational Epidemiology,
  o Population Genomics,
  o In-silico Structural Biology,
  o Health Technology Assessment,
  o Artificial Intelligence/Advanced Data Analytics,
  o Bioinformatics.
- The icing on the cake: a track record in attracting research funding.

To apply or inquire for further information, please send a motivation letter, your CV and email address of two referees to HR@toscanalifesciences.org.

Information about Siena

TLS is located inside the scientific campus of GlaxoSmithKline, in proximity of the city centre of Siena, one of Italy's most beautiful medieval towns in the heart of Tuscany. It is filled with fine examples of Gothic architecture and has one of the world's most unique piazzas - Piazza del Campo, a vibrant and lively atmosphere due to numerous cultural events and the presence of a large University campus. The city and surrounding area (Chianti, Florence etc.) have plenty of interesting places to visit within the reach of public transport and are close to international airports (Pisa, Florence, Bologna, Rome).

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