MAbSilico

Deeptech Antibody Development

Join us

You would like to give more meaning to your work? Come and join MAbSilico to make antibody drugs discovery, faster, better and cheaper.

For a DevOps engineer

Permanent contract, 2 days remote (depending on experience)
Based in Tours, France

For MAbSilico, a TechBio providing computational solutions for antibody drug discovery

Your role at MAbSilico

MAbSilico is a TechBio startup providing computational solutions for pharma and biotech companies to derisk drug design and discovery. MAbSilico is at the crossroads of two extremely dynamic and promising sectors: artificial intelligence and therapeutic antibodies.

You will be working on the software solution, called MAbFactory, enabling
- apply AI technologies developed by MAbSilico to antibody design.
- aggregate data on biological targets and antibodies from public and internal databases.

To support the development of MAbFactory, we are looking for a **DevOps engineer**, with or without experience.

Your experience, skills & technical environment

Experience:
- Bac+5 in computer science and/or mathematics, engineering training. Junior accepted.
- Infra, Data and Backend
- Data modeling and RDBMS

Skills & achievements (depending on experience):
- Be familiar with the subjects and tools described
- Have understanding of the fundamental principles and associated engineering
- Have problem-solving, communication and synthesis mindset. Be comfortable and calm in a rapidly changing environment
- Having skills in web development, use of Auth0, cybersecurity is a plus
- French speaking, English speaking is a plus

Technical environment:
- Infra/build: Azure, Docker, Terraform, GitOps (Github Actions), scripts python & shell
- Data: PostgreSQL, SQLite
- Backend: NodeJS/Typescript (Sveltekit), Python (FastApi, Azure Functions)
- Front-end: Svelte/Sveltekit, Typescript, Tailwindcss, D3.js

The key responsibilities

Application development, in collaboration with the software team, in the following areas:
- Back-end & data
- Implementation of application infrastructure

Develop competences, monitoring and autonomy in:
- Maintenance and evolution of the infrastructure (and associated tools) in line with MAbFactory's development and the company's growth
- Tools available on Microsoft Azure (e.g. on-demand calculation & scaling)
- Security/confidentiality/compliance aspects
- Participation in project management: feasibility, iterations, articulation between technical issues and expected functionalities

Organization

The DevOps Engineer works in software engineering team, under the supervision and with the support of the Tech Lead. As a developer, you will work primarily on the back-end and infrastructure of the application. You'll work with the other software developers (fullstack, frontend, infra), the data scientists who feed the databases, and the R&D team who create the computational methods.

The activity is located in the office of MAbSilico in the city of Tours (France), on-site with optional 2 days remote per week. Position is available immediately

Salary & Holidays

Salary is aligned with experience.
The number of paid vacations corresponds to 25 working days (i.e. 5 weeks of paid vacations) for a full working year.

Get in touch:
contact@mabsilico.com
www.mabsilico.com

MAbSilico:
Waza,
1 Impasse du Palais
37000 Tours, FRANCE

Approved by:
Vincent PUARD
CEO

Position evolution

As part of a startup, your job position can evolve in line with the scaleup and growth of the company. The software activities of MAbSilico are anticipated to grow in the coming months, and you will be in a privileged position to occupy higher functions. MAbSilico encourages training of its employees and proposes to organize with the research engineer their training scheme.

MAbSilico in brief

Summary:

MAbSilico is a French TechBio company which designs and implements computational solutions for the development of therapeutic antibodies and bio-drugs, which are used in an increasing number of pathologies. MAbSilico aims at creating a formal approach of antibody development, reducing the risks of failure and the duration of pre-clinical steps as well as strengthening intellectual property protection. Conventional approaches for the discovery and pre-clinical development of such drugs take two to three years, while MAbSilico technologies allow shrinking this time to a few weeks.

This technology, based on artificial intelligence and machine learning, is the result of more than twenty years of French scientific research (laboratories affiliated to INRAe and CNRS).

Strategy:

MAbSilico develops computational methods based on artificial intelligence for design, selection, characterization and optimization of antibodies. The methods allow generating a few candidates ready for final experimental validation and pre-clinical tests, reducing this phase of the development of a therapeutic and/or diagnostic biomolecule from 3 years to few weeks. MAbSilico is also very attentive to the extensive experimental validation of its methods. For this reason, MAbSilico conducted, since its very beginning, experimental bio validation of its own algorithms as proofs of concept. These experiments are either conducted in-house, or through collaborations with academic partners or private companies. Our software products are distributed through a scalable SaaS platform integrating within our clients' workflows.

Software – Platform Technology:

The MAbSilico pipeline consists in a suite of AI-based tools, allowing the design, selection, characterization and optimization of leads in a few hours. Some of these tools have already been in operation for years, such as MAbTope, which allows predicting the epitope of an antibody in less than one hour. This tool has now been extensively validated. The Target Explorer is an aggregation tool that allows the user to get access to publicly information curated by MAbSilico to understand the biology of the therapeutic target, scout the companies working to discover antibodies against it and retrieve antibody sequences with bio-physical properties from patents.

Background:

Since its inception in 2017, MAbSilico has grown to 10 FTE, including 7 PhDs. MAbSilico has been selected as one of the six winners of the Bpifrance Concours d'innovation, i-Nov, award in "Bioproduction" track in 2019 and other international grants like Bill and Melinda Gates Foundation. With more than 55 clients in pharma industry, MAbSilico is one of the world leader in the field of computational antibody drug discovery.

The team is divided into three departments: (1) biology, (2) software engineering & data science and (3) Computational sciences. This team has been tasked with the exciting challenge of developing various tools that can guide biologists, speed up lab efforts and lead generation of new therapeutic strategies. It's a multidisciplinary team that includes protein engineers, data scientists, bioinformaticians and software engineers. Each department is engaged in both capability development projects and asset development projects.

The company is now seeking to recruit a highly motivated and talented **DevOps engineer**. This person will work with the software engineering team.

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