We are looking for a new team member (m/f/d) to join us in our Hamburg Office.

**Data Scientists**

**with Focus on Environmental Modelling and Forest Growth Prediction (m/f/d)**

This is a permanent full-time position with a regular work week (currently 40 hours/week) at our office in Hamburg. Working from home part-time is possible.

At CarbonStack our mission is to accelerate the transformation to a net-zero world by providing a platform to offset unavoidable emissions through local afforestation and reforestation projects. Aside from helping companies to manage the conversion to climate neutrality this provides the foundation for sustaining and rebuilding local forests and areas.

To achieve our vision of a net-zero world we are developing forest projects together with local landowners, predict the carbon sequestration using ground truth data, document the financial contribution of companies on a public blockchain and monitor the results with satellite imagery in the long run.

**What we offer:**

- You are part of a fast moving and passionate start-up in the sustainability industry.
- You are shaping the future of compensation projects around the world with a focus on local development of forestation projects in Germany.
- Flexible work environment with both remote and office workspace and infrastructure.
- You and your team will be working with the most recent technologies in blockchain, remote sensing and forest growth predictions.

**What you will do:**

- Further develop existing models of forest growth with a focus on German vegetation.
- Assisting in developing a carbon uptake forecast tool that can predict the carbon sequestration of a forest based on satellite images (Airbus Pléiades Neo and Planet Scope) and ground truth data.
• Model biomass calculation of above ground and underground functions of different tree species and climate zones.
• Hands on programming and development of carbon stock forecasting tools in a team with other developers.
• Develop algorithms that can compare the baseline carbon uptake of an area with different forestation measures.

What you should bring:

• Basic understanding of forest growth models like 3PG and 4C.
• Forest specific knowledge based on study and/or practical experience
• Scientific understanding of carbon sequestration in different biotopes with focus on forests.
• Advanced knowledge of statistical models.
• Requiring programming languages: R (advanced), Python (appreciated)
• Basic understanding of neural networks and other AI tools.
• Independent and self-responsible way of working.
• Handling different data types and sources like satellite images, weather, and climate data and other geospatial information
• Knowledge of the development of models, data analysis methods and decision support systems in the environmental sciences
• The competence to use various interdisciplinary methods of modern environmental modelling, environmental data analysis and environmental information

If you are interested in the position, please send your application to jesper.kolk@carbonstack.de.