

## **Position title: Bioacoustics expert (2 positions) for NbS and Carbon offsetting projects**

### **Job title: analyst in bioacoustics**

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#### ***Summary***

We are looking for an bio-/eco-acoustic analyst participating in different projects worldwide around bioacoustics, wildlife monitoring, and ecosystem integrity assessment working with machine learning methodologies for the extraction of relevant ecological information from passive acoustic recordings as well as contribute to the design and implementation of the acoustic component of field methodologies in region-wide / large area wildlife monitoring programs and development and application of hard- and software tools for passive-acoustic monitoring of ecosystems, ecosystem disturbance and biodiversity.

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#### ***Who we are***

biometrio.earth is an innovative, cutting-edge natural resources monitoring company with the mission to bring transparency and accountability into the market for carbon offsetting strategies and certification. Founded by scientists and software engineers with deep career knowledge and convincing academic credentials in ecology, carbon economics, remote sensing, machine learning and bioacoustics, we have hands-on experience in developing and operating carbon and biodiversity monitoring systems in field and laboratory settings. The company tailors our existing set of sophisticated hardware and software tools, coupled with scalable cloud computing and visualisation, to the rapidly developing carbon offsetting market. While holding enormous potential for mitigating climate change and the current biodiversity crisis, this market is plagued by lack of transparency and accountability, exposing its main actors, the buyers and sellers of carbon offset credits, to high risk of unfavourable public exposure, resulting in a loss of their investment in certificates.

Our core innovation lies in intelligently combining state-of-the-art systems like deep-learning driven satellite data analysis chains with in situ deployed bio-sensors (audio, image and video) to measure and monitor a carbon-offset project area of any size. Thus, our technology is uniquely suited to continuously evaluate a project's state of ecosystem health in a scientific, repeatable, and transparent fashion. With our modern web-based data visualisation techniques our customers have rapid access to the state and value of their investment in a project at near real-time. Our continuous data driven project evaluation will render important insights into the permanence of a project area as a carbon sink, and the functions and services it can provide to its local human society and natural refuge for important biodiversity. In addition, our documentation process will generate high quality media to provide basic materials for verification, that can also be shared with the public as proof of the importance of the projects backed with our monitoring systems.

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#### ***Essential functions***

Analyse bioacoustics data of various locations, cooperate with academic and other groups (NGOs) in generating data bases to train models, interface with academic institutions on data exchange, collaborative efforts in model improvements, extraction of indicators, advise and design in situ monitoring systems.

***Responsibilities and scope***

- Support
  - Develop
  - Replicate
  - Contribute
  - Maintain
  - Coordinate
  - Oversee
  - Provide training
  - Must work in variable weather conditions, at remote locations, in hazardous terrain and under physical demanding circumstances
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***Qualifications and experience***

- Biologist, geo-ecologist, ecologist or similar with 1-3 years of post degree experience, Masters or PhD
  - Knowledge in ecological concepts and experiences with monitoring, specifically with sound recording devices in the field
  - Ideally knowledge on NbS projects and concepts (Nature-based solutions)
  - The candidates will interface with our AI team developing processing pipelines for automated data processing.
  - We do cooperate with various academic institutions and research into extending the reach and scope of bioacoustics in conservation, wildlife monitoring, rewilding, restoration and other related projects.
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***Where and how:***

- Location: HQ biometrio.earth in Berlin, Germany
  - Combined office and home office 3 days / 2 days, flexible work environment
  - The first 18-24 months shall be in Berlin to integrate the team, complete geographical flexibility after that period. Transfer to current other biometrio.offices in Melbourne or Falmouth, MA, US possible.
  - Full benefits packages according to German regulation (retirement, medical and unemployment insurance)
  - Additional benefits like free public transport
  - Flexible 37,5h work week, 30 days of paid vacation plus public German and Berlin holidays
  - Competitive basic salary (Berlin standard) plus incentives
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