

SELECTION OF TWO POST-DOCTORAL RESEARCHERS IN ENVIRONMENTAL AND ATMOSPHERIC SCIENCES

The Amazon Tall Tower Observatory (www.attoproject.org) wishes to recruit two post-doctoral researchers funded by FINEP-MCTI. The post-doctoral fellowship grants are available immediately and run until the end of 2025.

BACKGROUND AND AIM

Tropical forests act as both sources and sinks for atmospheric methane and nitrous oxide. Better understanding the exchange of these key greenhouse gases between central Amazonian forests and the atmosphere is a core aim of the Amazon Tall Tower Observatory (ATTO). The appointees will join a core team of four post-docs and other collaborators working on understanding these exchanges at different temporal and spatial scales.

GENERAL RESPONSIBILITIES OF CANDIDATES:

- Develop and publish original scientific research;
- Plan and conduct research in line with the programs' objectives and deadlines;
- Write reports and prepare results for publication;
- Participate in project meetings, seminars, workshops and conferences;
- Cooperate with and / or (co)supervise students working in the program;
- Cooperate and coordinate with other members of the ATTO consortium;
- Maintain a good working environment.

SKILLS AND PERSONAL ATTRIBUTES:

- Ability to communicate with scientists and researchers from different areas;
- Ability interact with other researchers and students within the academic context of teaching and learning;

ABOUT THE POSITIONS

Selected candidates are expected to develop new and creative research working with pre-existing and new data collected from the ATTO site. These positions include fieldwork in a relatively remote forest area. The post-doctoral researcher for position 1 will be based in Manaus (AM) at the Instituto Nacional de Pesquisas da Amazonia (INPA) and at the ATTO site. The post-doctoral researcher for position 2 will preferably be based in Manaus but this is negotiable depending on research direction. The fellowship are available until the end of 2025. A monthly stipend of BRL\$ 4.200,00 (subject to a discretionary 25% increase depending on experience) will be paid by FINEP-MCTI .

Please refer to Annex 1 for specific information on each of the two positions made available through this call.

APPLICATION

Period: 01.02.2023, until the position is filled

Register by e-mailing the documents below to spjones@bgc-jena.mpg.de with the subject PD-GHG, followed by the candidates' full name and position (1 or 2). Example: "PD-GHG, Carolina Carneiro, position 1".

The documents required to register the candidate in the selection process are:

1. CV;
1. Proof of PhD degree (Copy of diploma or certificate);
1. Motivation letter stating the candidates research interests in the context of the position;
1. At least one letter of recommendation

For additional information, please contact: spjones@bgc-jena.mpg.de

EVALUATION AND SELECTION

Requested documents will be used in the evaluation of the candidates, considering their academic history and the motivation for research. Candidates with an appropriate application will be invited for an interview (optionally remote).

PUBLICATION OF RESULTS

Results will be informed by email.

FINAL CONSIDERATIONS

The grantee may be removed from his / her function, at any time, through

- a) At the request of the supervisor, justified in writing;
- b) At the request of the fellowship holder, in writing.

ANNEX 1 – SPECIFIC INFORMATION ABOUT AVAILABLE POSITIONS

POSITION 1 – Trees as mediators of methane and nitrous oxide exchange

Candidates must have a PhD, preferably with experience in the collection, processing and analysis of gas fluxes from chamber measurements and / or the ecology of tropical forest trees and palms. The candidate will be responsible for investigating the function of trees and palms as sources and sinks of methane and nitrous oxide. This work can focus on upland and / or wetland ecosystems found at the ATTO site. Key themes of interest are intra- and inter-species differences in the exchange of these gases, the spatio-temporal variability of fluxes and the origin / fate of the gases involved.

The candidates are encouraged to conduct original research in the area of their speciality. The nature of the responsibilities will require considerable field work at the ATTO site, ~150 km north-east of Manaus. The activities will be coordinated by the Max Planck Institute for Biogeochemistry in Jena, Germany and INPA in Manaus, Brazil under the supervision of Dr. Sam Jones and Dr. Hella Van Asperen.

Questions about position #1 can be sent to Dr. Sam Jones (spjones@bgc-jena.mpg.de) or Dr. Hella Van Asperen (hasperen@bgc-jena.mpg.de).

POSITION 2 – Forest-atmosphere methane exchange

Candidates must have a PhD, preferably with experience in the collection, processing and analysis of greenhouse gas data from tower measurements. The candidate will be responsible for investigating the dynamics of ecosystem level methane exchange with the atmosphere in the Central Amazon. The work can focus on an available 9 year record of atmospheric methane concentration and / or atmospheric methane concentration and isotopic composition data currently under collection. Key themes of interest are tower measurement footprint analysis, methane fluxes using a gradient approach and process / database model verification and development.

The candidates are encouraged to conduct original research in the area of their speciality. Depending on research interests, the position may require periods of fieldwork at the ATTO site, ~150 km north-east of Manaus. The activities will be coordinated by the Max Planck Institute for Biogeochemistry in Jena, Germany and INPA in Manaus, Brazil under the supervision of Dr. Santiago Botía or Dr. Shujiro Komiya.

Questions about position #2 can be sent to Dr. Santiago Botia (sbotia@bgc-jena.mpg.de) or Dr. Shujiro Komiya (skomiya@bgc-jena.mpg.de).