

Environmental Modelling Specialist

funded by the National Science Centre within SONATA grant:

The extent of eastern Andean tree line over the last 30 years - a global analysis in the context of Amazonia's climate adaptation

based at the **Centre of New Technologies of the University of Warsaw**,
under the supervision of **dr Przemysław Żelazowski**

Contract:

- work load: 2-4 days per week
- remuneration: 2000-4000 PLN per month
- period: 1 year (extension might be considered)

Scope of research:

- analysis of forest distribution in the Eastern Andes based on available satellite imagery (Landsat, in particular) and purpose-built algorithms
- identification of environmental factors responsible for the contemporary changes in forest distribution across research area
- generation of a set of climate patterns based on the CMIP5 dataset (Coupled Model Intercomparison Project Phase 5)
- modeling of forest range using ecophysiological models and climatic data

Work tasks:

- overall project support in the area of environmental modelling using geographical data
- assistance in building and organising datasets
- support in designing algorithms for processing of satellite data and other spatial data
- algorithm implementation
- participation in research planning and conducting experiments
- contributing to writing scientific manuscripts and preparing conference contributions

Qualifications:

- commenced or accomplished MSc in the area encompassing geoinformatics
- experience in building algorithms that involve processing of spatial data
- ability to code in at least two of the following languages/scripts: Python, C, Matlab, Java, Java Script
- ability to work in both Linux and Windows
- experience in scientific publishing
- good written and spoken English
- good communication skills and ability to work autonomously

How to apply:

- Please send your application to the address przemyslaw.zelazowski@cent.uw.edu.pl, with the phrase „Environmental Modelling Specialist” in the title;
- deadline for applications: **25 June 2017**;
- selected candidates will be invited by email for an interview.