



Job offer

Categorie: Position

donderdag 7 juli 2016

The department of Terrestrial Ecology at NIOO-KNAW offers a position for a

Post-Doc: Molecular/microbial ecologist: plant-soil interactions

Vacancy number PostDoc-TE-01645

Project description

The candidate will study with a team of researchers how plant-mediated changes in soil communities can influence plant growth and aboveground plant-insect interactions. Soils house an overwhelming abundance and diversity of (micro) organisms. The local composition and abundance of these organisms depends greatly on the identity of the plant that is growing in the soil. The performance of plants, in turn, is determined by interactions with soil organisms. Hence, via their specific effects on soil organisms, plants can influence the growth of other plants that grow later in the same soil.

We study the impact of soil-borne 'legacy effects' on plants and aboveground insects in natural grasslands and in horticultural crops and ornamentals. The ultimate aim is to make use of soil legacies to restore natural grasslands on former arable fields, and to develop microbial inocula to be used in commercial greenhouses to increase resistance of crops to pests and diseases.

We are looking for a Post-doc with experience in molecular approaches to study interactions between plants and soil microbial communities. The post-doc is expected to design and carry out new experiments to study interactions between plants and soil microbial communities. Further, the postdoc will analyse existing datasets consisting of Illumina sequencing data of soil bacteria and fungi to study how plants influence the soil microbial community, and to examine relationships between the composition of the soil microbial community and the response of the plant that is exposed to this microbial community.

Funding

This research is funded by the Netherlands Organisation for Scientific Research (NWO) (NWO-VICI and NWO-Groen).

Requirements

- Strong motivation, enthusiasm, and ability to work both independently and in a team
- Phd in microbial ecology, phytopathology or plant-soil interactions
- Experience with molecular techniques, bioinformatics, analyses of large datasets, and statistics
- Experience with analyses of DNA sequence data from soil microbial communities and microbial network analyses will be a plus.
- Good communicative skills (fluency in English required)
- Affinity with ecological research and ecological questions

Appointment

The position is a temporary full time (38 hours/week) appointment, for a period of two years.

Salary

Salary depends on training and work experience. The gross salary starts at € 3.044,00 (scale 10.4) per month to the maximum gross monthly salary of a full-time appointment at € 3.997,00 (scale 10.12) per month, Collective Agreement for Dutch Universities (CAO Nederlandse Universiteiten), excluding 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Information

Additional information about this vacancy is available upon request from Dr. T.Martijn Bezemer (tel. 0317-47 3607, e-mail: m.bezemer@nioo.knaw.nl ^[1]). Information on the Netherlands Institute of Ecology (NIOO), can be found at <http://www.nioo.knaw.nl> ^[2].

Applications

Please send your application including motivation letter, complete curriculum vitae with publication list, the names of at least two referees, and the vacancy number to: vacature@nioo.knaw.nl ^[3]. The closing date for the application is August 31, 2016.

The Netherlands Institute of Ecology (NIOO) is a top research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW). NIOO-KNAW focuses on fundamental and strategic research into individual organisms, populations, ecological communities and ecosystems. The mission is to carry out excellent research in ecology.

Functie:

Postdoc ^[4]

Bron-URL: <https://nioo.knaw.nl/nl/node/7453>

Links

[1] <mailto:m.bezemer@nioo.knaw.nl>

[2] <http://www.nioo.knaw.nl>

[3] <mailto:vacature@nioo.knaw.nl>

[4] <https://nioo.knaw.nl/nl/role-function/postdoc>