

**OPEN POSITION FOR A RESEARCH ASSISTANT
(TENURE TRACK)
GEOSTATISTICS**

Institution : MINES ParisTech (École Nationale Supérieure des Mines de Paris)
Location : Centre de Géosciences / Geoscience Department
35, rue Saint Honoré
77300 Fontainebleau

MINES ParisTech invites applications for a position of junior researcher in geostatistics in Geoscience department. The position will be for an initial period of three years maximum; subject to good performance, it will be extended to a permanent associate professor position.

The position offers opportunities for strong collaborations with other industrial and academic R&D groups at European and international level. The successful candidate will also have the opportunity to co-supervise Master and Ph. D. students.

1. THE GEOSCIENCES DEPARTMENT

The Geoscience research department of MINES ParisTech focuses on research and teaching activities in the field of applied Earth Sciences. It is located in Fontainebleau, 65 km South of Paris.

Research and training activities cover the various fields in relation to the understanding of mining and management of underground resources (mineral raw material, oil&gas, groundwater, deep underground waste storages, tunnelling and underground space management) in the context of a sustainable development.

The Geoscience department is divided into six research teams which cover most of the applied Earth Sciences fields (geology, geophysics, geostatistics, hydrogeology, hydrochemistry, engineering geology and geomechanics). Research activities are generally multidisciplinary and involve several teams of the department, topics spanning from original and fundamental developments to innovative industrial solutions. The department employs about 40 tenured researchers, 35 technicians and administrative staff, and 40 PhD students.

The department also benefits from experimental facilities dedicated to rock and water characterization (ionic microprobe, SEM, XRD, water chemistry analysis...), to soil and rock mechanical testing, and finally to simulate rock cutting and oil&gas drilling processes.

The Geoscience research department takes also part in the MINES ParisTech graduate school and PhD programs in association with several Paris Universities. Besides, the department offers several professional trainings (6 to 10 months; about 40 trainees per year) in the fields of public administration of mining activities, geostatistics, and technical and economic evaluation of mining projects.

(see <http://www.geosciences.mines-paristech.fr> for more information)

2. DESCRIPTION OF THE POSITION

Description of the research team

The Geostatistics team gathers ten teachers-researchers and about the same number of PhD students and trainees. Geostatistics is dealing with models and probability methods devoted to the characterization and the prediction of phenomena showing a spatial variability. It was created by Georges Matheron at the beginning of the 1960s and got developed from the creation of the Geostatistics research department of MINES ParisTech in 1967. As its applications largely concern Earth Sciences (mine, oil, environment), the Geostatistics research department has integrated the Geoscience and Geoengineering research department in 2006. Nevertheless, the team keeps on developing works in other fields as fisheries sciences or epidemiology.

The team develops theoretical tools, new methodologies and applications for new questions or problems, as well as its own computer tools. Beside its research tasks, the team is in charge of teaching and training in Geostatistics: Geostatistics classes in MINES ParisTech and associated universities Master programs, specialised training in Geostatistics (CFSG), and finally continuous formation training (Automnales).

The position – Research

The candidate will manage and conduct research works in probabilistic modelling applied to geosciences. He will have to be able to contribute to theoretical and methodological works as well as to their application to concrete problems. According to the needs of the department but also to his tastes and abilities, he will for example contribute to works dealing with spatial sampling, spatiotemporal modelling, stochastic inverse modelling, assimilation of data, or extreme values in a spatial context.

In the frame of his activities, he will take part in the preparation of research actions, often by making partnerships with other research institutions, in France and abroad, by looking for co-financings from companies, national agencies or European funds.

He will contribute to the recognition of the team and to the promotion of the research undertaken by taking part in scientific events and by publishing works.

The position – Teaching

The candidate will be in charge of courses dealing with his research topics in the frame of the teaching and training activities of the team

Specificities of the candidate

The candidate will have strong skills in mathematics and probabilities, coupled with a sound practical sense. He will have a taste for theoretical works as well as for applications.

Candidates should have completed their PhD. Good knowledge of English is required. An experience abroad will be strongly appreciated.

Contacts for additional information about the position

For additional information about scientific issues :

- Jacques Rivoirard, jacques.rivoirard@mines-paristech.fr
- tél : + 33 (0)1 64 69 47 64

For additional information on administrative issues :

- Isabelle Olzenski, isabelle.olzenski@mines-paristech.fr
Phone : + 33 (0)1 64 69 49 56

3. TO APPLY

Applications must be submitted by 16th May 2014.

All applications must include:

- a detailed curriculum vitae;
- a list of publications and recent projects;
- a cover letter indicating presenting the **research project** of the candidate;
- if possible, three recommendation letters. In any case at least the names and contact information of three references.

Applications should be sent via E-mail or by post to:

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