



European Centre for Medium-Range Weather Forecasts

VACANCY NOTICE

Date of Issue: 13 January 2010

FUNCTION: **Scientist/Senior Scientist**
(Boundary Layer Parametrization)

GRADE: A2/A3, according to the scales of the Co-ordinated Organisations.

REFERENCE NO: AP10-02

LOCATION: ECMWF Headquarters at Shinfield Park, near Reading, Berkshire, United Kingdom

ENVIRONMENT: The European Centre for Medium-Range Weather Forecasts (ECMWF) is an international organisation supported by 31 States*. Its prime objectives are the operational production of analyses, medium-range forecasts of weather and ocean waves and seasonal forecasts, as well as scientific and technical research directed to the improvement of these forecasts. ECMWF operates a large computing facility including supercomputers, data archiving systems and networks. For details see:

www.ecmwf.int

MAIN DUTIES: This vacancy is in the Physical Aspects Section of the Research Department of ECMWF. The Section carries out research into the parametrization of subgrid-scale physical processes for atmospheric models, in particular for implementation in the Centre's forecasting system. Schemes must be effective across the range of model configurations used for high-resolution deterministic forecasting, for lower resolution ensemble prediction for medium, monthly and seasonal time ranges, and for variational data assimilation.

The successful candidate will:

- Be responsible for the boundary layer scheme, which is a major component of the ECMWF model
- Monitor the performance of the boundary layer scheme in the operational system
- Further develop the boundary layer scheme with initial emphasis on the stable boundary layer and then on boundary layer clouds
- Investigate the interaction of the boundary layer scheme with other parametrization schemes (clouds, convection, radiation, land surface) and dynamics

QUALIFICATIONS: A university degree to PhD level or equivalent, with experience and personal contributions in the area of boundary layer parametrization. A good general knowledge of meteorology and modelling of the atmosphere is required. Experience with parametrization in a large-scale modelling environment would be an advantage.

Staff are normally recruited from among the nationals of the following Member and Co-operating States: Austria, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Montenegro, the Netherlands, Norway, Portugal, Romania, Spain, Serbia, Slovakia, Slovenia, Sweden, Switzerland, Turkey, United Kingdom.

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Fluency in English is required and a good knowledge of one of the other working languages (French and German) would be an advantage.

REMUNERATION: For Grade A2: within the range **£3,795.24 to £5,069.79** basic salary per month **net of tax.**

For Grade A3: within the range **£4,683.01 to £6,333.06** basic salary per month **net of tax.**

In principle, a staff member will be engaged at the lowest step of the lowest grade of the post for which he or she is selected. Recruitment may be at a higher level when this is justified by qualifications and experience.

A deduction is made from the basic salary for the Pension Scheme and for Partial Invalidity (currently 8.8% for the Pension Scheme and 0.2% for Partial Invalidity). A further 1.46% of basic salary and related allowances is currently deducted for the ECMWF Supplementary Health Insurance Scheme.

Where applicable: household allowance of 6% of basic salary; children's allowance of £214.41 per child per month; expatriation allowance of 14% or 18% of basic salary for expatriates; education allowance for children of expatriates is added.

STARTING DATE: As soon as possible.

LENGTH OF CONTRACT: Maximum of four years for initial contract, with the possibility of renewal.

APPLICATIONS: Application forms can be downloaded from ECMWF's website:
www.ecmwf.int/newsevents/employment/en/

CLOSING DATE: Completed applications for this post must reach the Personnel Section of the European Centre for Medium-Range Weather Forecasts at the above address not later than **10 March 2010**.

* *The ECMWF Member States are Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey and the United Kingdom.*

The ECMWF Co-operating States are Croatia, Czech Republic, Estonia, Hungary, Iceland, Latvia, Lithuania, Montenegro, Morocco, Romania, Serbia, Slovakia and Slovenia.