



European Centre for Medium-Range Weather Forecasts

# VACANCY NOTICE

Date of issue: 20 August 2012

- FUNCTION:** **Consultant (Analyst) to work on CHARM project in the Meteorological Data Section**
- REFERENCE NO:** AP12-16
- 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 34 States.\*

ECMWF's principal objectives are the development of numerical methods for medium-range, monthly and seasonal weather forecasting; the preparation, on a regular basis, of these weather forecasts for distribution to the meteorological services of the Member States; scientific and technical research directed to the improvement of these forecasts; and the collection and storage of appropriate meteorological data. Satellite and in situ observations provide the information for up-to-date global analyses and reanalyses of the atmosphere, ocean and surface. For details see:

[www.ecmwf.int/research](http://www.ecmwf.int/research)

ECMWF's main computing facility includes supercomputers, archiving and data handling systems. ECMWF is connected to the meteorological telecommunication system and to its Member States via efficient networks linking 44 countries. A detailed description is available at:

[www.ecmwf.int/services/computing/overview](http://www.ecmwf.int/services/computing/overview)

- MAIN DUTIES:** ECMWF is a partner in the EU-funded CHARM project (Characterisation of metadata to enable high-quality climate applications and services), which will create connected repositories of commentary metadata and web service interfaces through which users can access them. The project will build example applications that demonstrate the value of exploiting this metadata in real scientific problems, including the search, visualization, and intercomparison of climate observations, model output and hybrid datasets. Partner institutes in CHARM include the European Space Agency (ESA) and the Joint Research Centre (JRC) of the European Commission.

Over the years, ECMWF has developed a service-oriented infrastructure to provide access to its archived data. Users can retrieve, transform and plot data on-demand. This infrastructure will be scaled up to meet the data access requirements emerging from the procedures put in place within CHARM. ECMWF's Observation Feedback Archive (including the original observations, differences, events, uncertainty estimates, etc.), covering more than a century of observational datasets, will be made available online, with interactive and user-friendly web-based access.

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## AP12-16

The post is in the Meteorological Data Section of the Operations Department. This Section is responsible for managing the Centre's archive (MARS) and data catalogues, providing access to the Centre's products and developing tools to make use of these products.

The main duties for this post include:

- developing web-based services allowing users to access ECMWF's Observation Feedback Archive, in accordance with the concepts and procedures that will be developed with the CHARM project;
- collaborating with the partners in the CHARM project, in particular to define user requirements;
- contributing to the project's deliverables, including writing project reports and documentation;
- participating in meetings with the project partners and the European Commission.

**QUALIFICATIONS:** A university education or equivalent is required, as well as experience in developing web-based applications and services, and knowledge of Python and SQL in a UNIX/Linux environment.

Experience with meteorological and scientific data formats (GRIB, BUFR, NetCDF, HDF, etc.) and knowledge of Open Geospatial Consortium (OGC) standards would be a distinct advantage.

The working languages of ECMWF are English, French and German. Candidates must be able to work effectively in English and have a good knowledge of one of the other working languages. Interviews will be conducted in English.

**REMUNERATION:** This consultancy position is remunerated at a level equivalent to a grade A2 staff position and the annual basic salary will be **£50,433 net of tax**.

Subject to individual circumstances and eligibility, other allowances may be added. Full details of salary scales and allowances are available on the ECMWF website at: [www.ecmwf.int/newsevents/employment/en/](http://www.ecmwf.int/newsevents/employment/en/)

**STARTING DATE:** As soon as possible.

**LENGTH OF CONTRACT:** Two years.

**APPLICATIONS:** Application forms can be downloaded from ECMWF's website:  
**[www.ecmwf.int/newsevents/employment/en/](http://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 not later than **28 September 2012**.

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

*The ECMWF Co-operating States are: Bulgaria, Croatia, Czech Republic, Estonia, former Yugoslav Republic of Macedonia, Hungary, Israel, Latvia, Lithuania, Montenegro, Morocco, Romania, Serbia, Slovakia and Slovenia.*