



HIRLAM Senior code analyst for data assimilation

In the preparations for the HIRLAM-C programme, the introduction has been foreseen of a new function, a senior code analyst for data assimilation (previously referred to as code architect). The HIRLAM Council has now decided to open up this position for application.

Terms of reference:

The senior code analyst shall technically assist the HIRLAM programme manager and the project leaders for atmospheric data assimilation and surface analysis and modelling in defining the desirable evolution of the data assimilation code in the shared ALADIN-HIRLAM System. This includes the following specific tasks:

The senior code analyst will:

- Propose technical solutions to implement HIRLAM-ALADIN LAM data assimilation algorithmic components and developments within the new IFS/OOPS code framework
- (Help) develop and promote the use of block unit tests for HIRLAM-ALADIN LAM data assimilation components
- Document the design of the LAM data assimilation code and testing framework within the new IFS/OOPS code framework, and transfer knowledge on this to the ALADIN-HIRLAM community
- Assist the HIRLAM project leaders on atmospheric data assimilation and surface analysis and modelling in the definition and monitoring of the data assimilation and use of observations setup within the Harmonie-Arome Reference System
- Assist in the definition and realization of joint ALADIN-HIRLAM core programme activities related to data assimilation

The senior code analyst will take part in the HIRLAM Management Group. He or she will work in close collaboration with the HIRLAM programme manager, the HIRLAM project leaders for atmospheric data assimilation and surface analysis and modelling, and the ECMWF/Meteo-France OOPS developers. He or she will be in regular communication with data assimilation staff from HIRLAM, ALADIN, ECMWF and Meteo-France. The function is to be carried out on a 50% of full-time basis.

Profile:

Candidates for this position should:

- have a deep knowledge of data assimilation algorithm development, in particular its coding aspects
- be knowledgeable on the intended innovations by HIRLAM and ALADIN in the field of flow-dependent assimilation in the coming years
- be knowledgeable on the OOPS redesign of the data assimilation code. Experience with the Harmonie-Arome Fortran data assimilation code, and knowledge on the ongoing refactoring of this code, will be considered a plus.
- Be employed in or through one of the HIRLAM NMS's.

Applicants are requested to send a short motivational letter and c.v. to the HIRLAM programme manager, Jeanette Onvlee (Jeanette.onvlee@knmi.nl) before 1 September.

The evaluation of the candidates will be done by a selection committee consisting of the HIRLAM programme manager, the project leader on Atmospheric data assimilation, and one member from the HAC. Candidates may be shortlisted and selected for interviews on the basis of the information contained in their applications. The recommended candidates will be formally appointed by the HIRLAM Council. The duration of the appointment in principle is until the end of the HIRLAM-C period, i.e. 31 December 2020.

J. Onvlee

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