

APPEL D'OFFRES-i - VIA « I-SOURCING »

No. 18-660400-A

Open Call for Tenders for a time-based contract in the framework of data science and machine-learning for the EUROCONTROL Maastricht UAC

The Maastricht UAC is seeking for a data science and machine-learning expert who will support the ATC2ATM programme's TPI (Traffic Predictions Improvements) project. The ATC2ATM programme aims to improve the productivity and as a consequence the cost-efficiency of MUAC, by shifting the tactical planning horizon from the ATC to the ATM layer. The programme will fill the gap between today's Coordinator Controllers tasks and Flow and Capacity Supervisors tasks by establishing new roles, operational procedures and supporting tools. Key to this evolution is better predictability of air traffic and better understanding of operational decisions in the wake of complex environmental factors. The use of data science and of machine learning in particular, needs to address current uncertainties in these two areas.

EUROCONTROL

The European Organisation for the Safety of Air Navigation (EUROCONTROL) was founded in 1960 by six States. It now has 41 Member States. EUROCONTROL's mission is to harmonise and integrate air navigation services in Europe, aiming at the creation of a uniform air traffic management (ATM) system for civil and military Users, in order to achieve the safe, secure, orderly, expeditious and economic flow of traffic throughout Europe, while minimising adverse environmental impact.

Maastricht Upper Area Control Centre (MUAC)

The Maastricht Upper Area Control Centre (MUAC) is part of the EUROCONTROL Agency and is tasked with the provision of Air Traffic Control (ATC) services to civil air traffic in the upper airspace over Belgium, Luxembourg, the Netherlands and the north-western part of Germany. A Deutsche Flugsicherung (DFS) unit is co-located at MUAC, controlling Operational Air Traffic (OAT) over North-West Germany.

Who should tender:

This invitation to bid addresses all companies that are in a position to offer and deliver the services as described above and who have technical and professional qualification in machine learning technologies and have some knowledge of the Air Traffic Management domain. The technologies used in the project are among others: Python, TensorFlow, ETL tools (Java Spring Batch and Pentaho Data Integration Platform), GIS systems (QGIS/GeoServer/OpenLayers), Oracle Spatial. The domain knowledge should include principles of 4D trajectory predictions and measurements of predictions accuracy and general architecture of advanced Air Traffic Management systems.

Closing date: Monday, 30/07/2018 at 15h00 CET (Local (Brussels) Time)

European
Organisation for the
Safety of
Air Navigation

Organisation
européenne pour la
sécurité de la
navigation aérienne

Horsterweg 11
6199 AC Maastricht-
Airport
Tel: +31.43.366.12.34

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Point of Contact:

If you wish to receive the call for tenders please see the "important notice" below and if you have any other related questions, please contact:

Mrs S. Litaj / Mrs C. Servaes
Maastricht UAC Procurement Services
e-mail: silvie.litaj@eurocontrol.int – cathy.servaes@eurocontrol.int
tel. : +31-(0)43-366.2111 / +31-(0)43-366.1089
fax.: +31-(0)43-366.1361

IMPORTANT NOTICE

The full i-call for tenders documentation is in electronic format (.pdf).

If you wish to obtain the i-call for tenders documentation please read and follow carefully the instructions below:

1. **If you are already registered in the EUROCONTROL Supplier Portal, please send an e-mail to the Point of Contact mentioned above to get access to the documentation.**
2. **If you are not yet a EUROCONTROL supplier, please follow the 4-step process described on the following link:**

<http://www.eurocontrol.int/articles/supplier-portal-registration-procedure>

3. EUROCONTROL accepts no responsibility whatsoever for the completeness, accuracy and/or timeliness of the transmission of the electronic documents (nor for the electronic documents themselves).
4. Submission of tenders shall **be made electronically** and shall be exclusively made in strict accordance with the instructions given in the "NOTICE CONCERNING THE PRESENTATION OF TENDERS".
5. You may:
 - a) print out the documents;
 - b) forward the documents further on a strictly need to know basis (always fully acknowledging the source, i.e. EUROCONTROL), and
 - c) use print-outs of the electronic i-call for tenders documents for the submission of tenders (especially Form i-AF32CFT).
6. You may not:
 - a) modify, edit and/or change the electronic documents other than to complete the required information and to sign/stamp the Tender Form;
 - b) transmit such documents to any third person who has no need to know them;

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- c) post such documents on any private or public website;
 - d) alter the originating source (EUROCONTROL) and or copyright signs etc., and
 - e) transmit the documents without indication of the source.
7. EUROCONTROL reserves the right not to send you the tender documentation, if your company is considered as incapable of submitting an offer to the i-call for tenders (size of the project, complexity etc.).

An environmental notice:

With a view to reduce the exponential growth of paper consumption, we would invite you only to print out electronic documents received and/or request paper copies of the price enquiry documentation if you are actually considering to submit a tender.