



EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS

Analyst - Full Stack Web Developer (Python)

Position information

Vacancy No.: VN20-06	Department: Forecasts
Grade: A2	Section: Development
Job Ref. No.: STF-C/20-06	Reports to: Team Leader
Publication Date: 28 February 2020	Closing Date: 6 April 2020

1. About ECMWF

ECMWF is both a research institute and a 24/7 operational service, producing global numerical weather predictions and other data for its Member and Co-operating States and the broader community. ECMWF carries out scientific and technical research to improve its forecasts, runs one of the largest supercomputer facilities in Europe and manages a long-term archive of meteorological data.

For details, see www.ecmwf.int/.

2. Summary of the role

To maintain the rapid growth of environmental data we serve, we are looking for an experienced Full Stack Web Developer to join our highly successful development team.

As part of ECMWF's mission, we provide weather forecasts data in time critical fashion to our Member States, ECMWF operates web services which give access to raw data and graphical products. To achieve this our Web Services Team has developed a service-oriented web infrastructure. A back-end of data processing and visualisation services offers RESTful APIs on which frontend applications for users are built. With the upgrade to our new and more powerful supercomputer, ECMWF will increase the resolution of its forecast resulting in large data amounts. As it is crucial that our data reaches decision makers in real-time, we are constantly exploring cutting edge technologies for our web services.

To be fully focus on this challenge, the team is undergoing exciting changes to concentrate its efforts on the development and maintenance of the back-end and crucial business logic. In exchange, external companies and consultants will help us by building modern and innovative web front-end applications using these services.

The main aspects of this role are:

- Designing the functionalities of new web applications in cooperation with the meteorologist experts and writing the technical requirements for them
- Designing and implementing the RESTful API/backend services
- Coordinating the work with external developers (companies and consultants) on a technical level
 - Responding to technical queries
 - Being part of long-term maintenance of externally developed web front-ends
- Integrating the work on the ECMWF web Infrastructure, aiming for continuous integration
- Providing assistance with changes to existing web frontend

3. Main duties and key responsibilities:

- Working with internal stakeholders to identify the requirements for front-end applications and design the corresponding RESTful APIs
- Working with external parties, coordinating their work and ensuring necessary backend and API developments
- Implementing back-end services in Python as needed
- Assisting with the maintenance of web front- and back-end services
- Integrating new developments into ECMWF operational system

4. Personal attributes

- Excellent communication skills and interpersonal skills – especially in working with third-party companies and consultants
- Excellent analytical and problem-solving skills, and a proactive approach
- Positive attitude towards working in an international environment
- Flexibility, with the ability to adapt to changing priorities and user needs
- Dedication and enthusiasm to work independently and to contribute to a small team
- Ability to work across disciplines
- Ability to understand meteorological forecasts and good eye for design.

5. Qualifications and experience required

Education	A university degree, or equivalent experience, in computer science or a related discipline.
Experience	<p>Experience in developing in Python to analyse and display (environmental) data. (Essential)</p> <p>Experience in developing webservices with Python-based frameworks, like Django, in a production environment. (Essential)</p> <p>Demonstrated experience in collaborating with remote teams and external partners. (Essential)</p> <p>Proven skills in managing third party developers throughout the development life cycle (Essential)</p> <p>Experience with using containers and Kubernetes in a production environment (Desirable).</p>

	<p>Experience working within a larger web development team and maintaining an operational system (Desirable).</p> <p>Good JavaScript-related experience with libraries such as Angular and REACT</p>
Knowledge and skills (including language)	<p>Good knowledge of Git is essential. Knowledge of Atlassian tools (JIRA, Confluence, Bamboo). (Desirable)</p> <p>Good knowledge on how to work on Linux systems.</p> <p>General knowledge of RESTful APIs (e.g. with OpenAPI/Swagger) and of OGC standards (e.g. WMS). (Desirable)</p> <p>Knowledge of working with database systems, e.g. MongoDB, PostgreSQL. (Desirable)</p> <p>Candidates must be able to work effectively in English and interviews will be conducted in English. A good knowledge of one of the Centre's other working languages (French or German) would be an advantage.</p>

6. Other information

Grade remuneration

The successful candidate will be recruited at the **A2** grade, according to the scales of the Co-ordinated Organisations and the annual basic salary will be **£60,590.64** net of tax. This position is assigned to the employment category **STF-C** as defined in the Staff Regulations.

Full details of salary scales and allowances are available on the ECMWF website at www.ecmwf.int/en/about/jobs, including the Centre's Staff Regulations regarding the terms and conditions of employment.

Starting date: 1 June 2020, or as soon as possible thereafter.

Length of contract: Four years, with the possibility of further contract.

Location: The position will be based in the Reading area, in Berkshire, United Kingdom.

Interviews for this position are expected to take place in Reading, Berkshire on 21st April 2020.

7. How to apply

Please complete the online application form available at: www.ecmwf.int/en/about/jobs.

To contact the ECMWF Recruitment Team, please email jobs@ecmwf.int.

Please refer to the ECMWF Privacy Statement. For details of how we will handle your personal data for this purpose, see: <https://www.ecmwf.int/en/privacy>.

At ECMWF, we consider an inclusive environment as key for our success. We are dedicated to ensuring a workplace that embraces diversity and provides equal opportunities for all, without distinction as to race, gender, age, marital status, social status, disability, sexual orientation, religion, personality, ethnicity and culture. We value the benefits derived from a diverse workforce and are committed to having staff that reflect the diversity of the countries that are part of our community, in an environment that nurtures equality and inclusion.

Staff are usually recruited from among nationals of the following Member States and Co-operating States:

Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland France, Hungary, Germany, Greece, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Montenegro, Morocco, the Netherlands, North Macedonia, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Staff from non-ECMWF States may be considered in exceptional cases.