

PUBLIC HEALTH SOLUTION ARCHITECT

Unit: Digital Transformation Services

Reference: ECDC/AD/2022/DTS-PHSA

Applications are invited for the above Temporary Agent post at the European Centre for Disease Prevention and Control (ECDC).

Job description

ECDC plans to recruit one person for the above-mentioned vacancy. ECDC also aims to establish a reserve list, which may be used for any future vacancies in the area.

The job holder will play a key role in the efforts of the Centre to leverage digital health, artificial intelligence, and other innovative digital technologies in the area of public health. This will be achieved by bringing first-class expertise in software engineering in the field of life science and health. The Jobholder will report to the Head of Section Digital Solutions and will be responsible for the architecture of existing and future digital solutions according to specific assignments mainly in the area of public health information systems. The jobholder is contributing to the documentation of institutional memory for an IT Product and is ensuring alignment with the Stakeholder Requirement document and with the ECDC enterprise architecture landscape.

He/she will be responsible in particular for the following areas of work:

- Provide solution architecture and technical advice for e-health solutions with focus in the areas of surveillance, biostatistics, whole genome sequencing, disease surveillance data visualisation, public health systems integration, laboratory information management systems (LIMS), contact tracing;
- Contribute to the DTS Units', Section's and Group's objectives and to their implementation;
- Analyse, specify, update and make available architecture models to implement digital solutions in accordance with requirements from business, data infrastructure and policies;
- Select appropriate technical options for application design, taking into account interoperability, reversibility, scalability, usability, accessibility and security and optimising

the balance between cost and quality for public health systems for infectious disease surveillance, epidemic intelligence;

- Establish and maintain High Level Design documents, architecture models, and other technical documentation. Review deliverables and other solution development documentation;
- Work with IT Enterprise Architect, Business Analyst, Project Manager, Developers, Testers and Business Owner to design and document technical specifications for new and further development (produce procurement documentation);
- Communicate and advocate the design to relevant stakeholders;
- Participate in Enterprise Architecture activities and provide a link between Enterprise Architecture and the development / maintenance of the IT Product (e.g. ensuring principles, standards and guidelines);
- Follow up compliance with the defined design (at application, solution, and enterprise levels);
- Develop and test existing and new solutions as needed;
- Support and guide the development teams in implementing new projects or further developing and maintaining existing products;
- Take the role of Product Manager as needed;
- Define and ensure best practices regarding code implementation, documentation, testing, and deployment packaging;
- Contribute to incidents and requests reported and assigned to Third Level Support and followed up in accordance with the established work instructions as needed.
- Contributing to other activities of ECDC as required, within his/her field of competence;

Qualifications and experiences required

A. Formal requirements

In order to be an eligible candidate you need to fulfil a set of formal requirements. These requirements are:

- A level of education which corresponds to completed university studies of at least 3 years attested by a diploma¹
- Thorough knowledge of one of the official EU languages and a satisfactory knowledge of another official EU language to the extent necessary for the performance of his/her duties²;
- Nationality of one of the EU Member States or of Norway, Iceland or Liechtenstein;
- To be entitled to his or her full rights as a citizen³;

¹ Only diplomas and certificates that have been awarded in EU member states or that are the subject of equivalence certificates issued by authorities in the said Member States shall be taken into consideration

² Candidates with a non-official EU language or English as their mother tongue must provide proof of their level of a second language with a certificate (B1 or more).

In addition, in order to be eligible for a promotion through an annual promotion exercise the staff members have to have a working knowledge of a third EU language, as described in the applicable Staff Regulations and Implementing Rules.

³ Prior to the appointment, the successful candidate will be asked to provide a certificate from the police file to the effect of non-existing criminal record.

- To have fulfilled any obligations imposed by the applicable laws on military service;
- Meet the character requirements for the duties involved; and
- Be physically fit to perform the duties linked to the post.

B. Selection criteria

To qualify for this post we have identified essential criteria with regard to professional experience and personal characteristics/interpersonal skills. These are:

Professional experience/knowledge:

- At least 5 years professional experience (following the award of the diploma), of which at least 3 years' experience acquired in positions relevant to the job description;
- Experience in software engineering and solution architecture design for public health IT solutions (e.g., Epidemic intelligence, disease surveillance, e-health solutions with focus in the areas of surveillance, biostatistics, whole genome sequencing, disease surveillance data visualisation, public health systems integration, laboratory systems, contact tracing)
- Sound knowledge of various operating systems and databases (e.g. Windows including server editions, Linux, Microsoft SQL Server and other databases);
- Knowledge of e-health interoperability standards (e.g. HL7, SNOMED, LOINC)
- Development skills for web based and/or desktop application software;
- Deep knowledge of cloud architectures, the Microsoft infrastructure and related development platform and technologies (e.g. MS, Azure, Win Server, IIS, SQL Server, Microsoft 365, Visual Studio, C#, .Net Core, Azure DevOps);
- Excellent command of English, both written and spoken.

Personal characteristics/interpersonal skills:

- Quality driven and service minded;
- Ability to work collaboratively and build strong working relationships;
- Results oriented;
- Committed to continuous learning and keeping abreast of developments within their field of expertise
- Excellent analytical skills.

Depending on the number of applications received, the selection committee may apply stricter requirements within the aforementioned selection criteria.

Equal Opportunities

ECDC is an equal opportunities employer and encourages applications from all candidates who fulfil the eligibility and selection criteria without any distinction on grounds of age, race, political, philosophical or religious conviction, gender or sexual orientation and regardless of disabilities.

Appointment and conditions of employment

The jobholder will be appointed on the basis of a shortlist proposed by the Selection Committee to the Director. This vacancy notice is the basis for the establishment of the Selection Committee's proposal. Candidates will be requested to undergo written tests. Candidates should note that the proposal may be made public and that inclusion in the shortlist does not guarantee recruitment. The shortlist of candidates will be established following an open selection process.

The successful candidate will be recruited as a Temporary Agent, pursuant to article 2f) of the Conditions of Employment of Other Servants of the European Union, for a period of five years which may be renewed. The appointment will be in grade **AD 5**.

Applicants should note the requirement under the EU staff regulations for all new staff to successfully complete a probationary period of nine months.

For any further information on contractual and working conditions, please refer to the Conditions of Employment of Other Servants of the European Communities, which are available at the following link:

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A01962R0031-20140501>

The place of employment will be Stockholm, where the Centre has its activities.

Reserve list

A reserve list may be created and used for recruitment, should similar vacancies arise. It will be valid until 31 December of the same year as the application deadline and may be extended.

Application procedure

To apply please send a completed application to Recruitment@ecdc.europa.eu clearly indicating the vacancy reference and your family name in the subject line of the email.

For your application to be valid you must complete all required sections of the application form, which should be submitted in Word or PDF format and preferably in English⁴. Any incomplete applications will be considered invalid.

The ECDC application form and a candidate guide on the ECDC recruitment and selection process can be found on our website here:

<https://ecdc.europa.eu/en/about-us/work-us/recruitment-process>

The closing date for the submission of applications is on **22 August 2022 at 23:59** Stockholm time. Further information regarding the status of this selection procedure, as well as important information regarding the recruitment process, is noted on our website and can be found using the above link.

Due to the large volume of applications received, only candidates selected for interviews will be notified.

⁴ This vacancy notice has been translated into all official EU languages from its English original. As the language of day-to-day operations in the Agency is generally English, ECDC prefers to receive the application in English.