

## VACANCY NOTICE

### DATA ENGINEER

REF: OPER IT TA 6/2022

<b>Type of contract</b>	Temporary Agent <sup>1</sup>
<b>Function group and grade</b>	AD 5
<b>Duration of contract</b>	3 years, with possibility of extension
<b>Department/Unit</b>	Operations Department / IT Unit
<b>Place of employment</b>	Paris, France
<b>Deadline for applications</b>	<b>Extended to 22 August 2022</b> at 12.00 noon Paris time <del>30 June 2022</del> at 12.00 noon Paris time
<b>Reserve list valid until</b>	31 December 2023

### The Authority

The European Banking Authority is an independent European Union authority established on 1 January 2011 by Regulation (EU) No. 1093/2010 of the European Parliament and of the Council of 24 November 2010<sup>2</sup>.

The EBA contributes to ensuring a high quality, effective and consistent level of regulation and supervision in the European Union banking and other relevant areas of the single market under its competence. It promotes public goods such as the stability of the financial system, the transparency of markets and financial products, and the protection of depositors and investors. It works to guarantee a level playing field, strengthen international supervisory coordination, promote supervisory convergence and advise the Union institutions in the areas of banking, payments and e-money regulation and supervision, and related governance, auditing and financial reporting issues.

An integral part of the European System of Financial Supervision (ESFS), the EBA works closely together with the other European Supervisory Authorities (ESAs): the European Insurance and Occupational Pensions Authority (EIOPA) and the European Securities Market Authorities (ESMA), as well as the European Systemic Risk Board (ESRB).

Further information on the EBA is available on the EBA website: [www.eba.europa.eu](http://www.eba.europa.eu).

<sup>1</sup> According to the Article 2(f) of the Conditions of Employment of Other Servants of the European Union (CEOS)

<sup>2</sup> Regulation (EU) No 1093/2010 of the European Parliament and of the Council of 24 November 2010 establishing a European Supervisory Authority (European Banking Authority), amending Decision No 716/2009/EC and repealing Commission Decision 2009/78/EC (OJ L 331, 15.12.2010, p. 1).

Through its EUCLID<sup>3</sup> program, the European Banking Authority built and consolidated over the last 5 years the EBA Data HUB, an MDM-based platform collecting and hosting some of the largest data sets from the entire banking sector in EU.

The European Banking Authority is now seeking a suitable candidate for the position of **Data Engineer** at its offices in Paris, France, to be part of a young and energetic team to implement new capabilities that extract value and insight from EBA's unique data assets for the benefit of its stakeholders and EU citizens.

## Job description

### Main purpose

Under the overall responsibility of the Head of IT Unit, the Data Engineer will play a critical role in designing, implementing and maintaining the data architectures and processing that the EBA's analytical and data dissemination products will use. As an expert in data processing, he/she provides technical expertise, designs and implements data pipelines, integrations, staging, storing & quality processing, using data infrastructure both cloud and on-premises, working in Project/Product teams with internal and external contributors/stakeholders at various levels, always ensuring full compliance with the EBA's policies and standards, contributing to and implementing the EBA's IT Architecture, Security and Technology Strategy and Standards.

### Main responsibilities

- Work in cross-functional teams in the development and implementation of digital solutions in a data-driven organisation, with a focus on dramatically improving the automation and efficiency of business processes based on data utilization and data insights;
- Develop robust end-to-end data solutions that pipeline data for various use cases (website, analytics, APIs, etc.) through processing that includes, but is not limited to, ingestion, parsing, validation, cleansing, integration, enrichment, auditing, logging, aggregation, normalization, (re)modelling, error handling;
- Create and update the data models of the different EBA data domains and systems, maintaining the links with the EBA data architecture;
- Design, implement and maintain database systems, data warehouses, data lakes and other data structures, using various cloud and on-premises technologies. Ensure data systems meet availability, performance and cost objectives, are adequately secured and resilient;
- Liaise with business areas to identify information needs and opportunities where data can be used to improve business activities; gather and analyse users' requirements; propose and implement innovative data solutions. Work with cross-functional infrastructure, development, security teams to resolve data quality and operational issues;
- Educate the team in emerging related technologies, identify value add opportunities, evaluates and recommends technology for adoption/purchase, uses his/her expertise and knowledge to exemplify and unlock insights and innovation in the use of data;

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<sup>3</sup> The European Centralised Infrastructure of Data (EUCLID) is an EBA product based on a proprietary technology platform that EBA developed in order to efficiently collect and process data from Competent Authorities for a wide range of domains. (see [EBA Decision DC 335](#) consecrating its rollout into production in 2020).

- Create effective data exploration solutions, using rapid prototyping whenever convenient, and design led thinking to select of appropriate visualisations, leading users to insights through a compelling data-driven story, supported by UX/UI experts and product teams with iterative development based on regular feedback;
- Ensure that the necessary high-quality documentation, related to the development and use of the solutions, is created and maintained;
- Ensure that technical testing is performed, and proper documentation and reports are created; support business users in acceptance testing to sufficient level, and fix identified defects;
- Ensure that EBA products and EBA data are always protected, processing and development meets security standards, relevant security and access restrictions are implemented, and full execution of security plans for each EBA product is ensured.

## Requirements

### 1. Eligibility Criteria

To be considered eligible, candidates must satisfy all the criteria listed below, by the deadline for submitting applications.

#### 1.1 General

- Be a national of one of the Member State of the European Union, or a national of the European Economic Area (Iceland, Liechtenstein, Norway);<sup>4</sup>
- Be entitled to his/her full rights as a citizen;<sup>5</sup>
- Have fulfilled any obligations imposed by the applicable laws on military service;
- Have a thorough knowledge<sup>6</sup> of English<sup>7</sup> and a satisfactory knowledge<sup>8</sup> of another official language<sup>9</sup> of the European Union;<sup>10</sup>
- Have the appropriate character references as to his/her suitability for the performance of his/her duties;
- Be physically fit to perform the duties linked to the post.<sup>11</sup>

<sup>4</sup> Due to the withdrawal of the United Kingdom from the European Union on the 31/01/2020, candidates with UK nationality who do not hold the nationality of a Member State of the European Union or of the European Economic Area, are not eligible for calls for applications at the EBA due to the fact that they do not fulfil the requirements of Article 12 (2)(a) of the Conditions of Employment of Other Servants

<sup>5</sup> Prior to the appointment, the successful candidate will be asked to provide an official document showing the absence of any criminal record.

<sup>6</sup> The knowledge is required at least at C1 level. The assessment at C1 level is done in accordance with the [Common European Framework of Reference for Languages \(CEFR\)](#)

<sup>7</sup> English is the working language of the EBA. [Decision EBA DC 003 of the Management Board on Internal Language Arrangements](#)

<sup>8</sup> The knowledge is required at least at B2 level. The assessment at B2 level is done in accordance with the [Common European Framework of Reference for Languages \(CEFR\)](#)

<sup>9</sup> The official languages of the European Union: Bulgarian, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Irish, Italian, Latvian, Lithuanian, Maltese, Polish, Portuguese, Romanian, Slovak, Slovenian, Spanish, and Swedish.

<sup>10</sup> Native English speakers will be tested to prove their second language skills, in accordance with section 1.1 of the vacancy notice.

<sup>11</sup> Before the appointment, the successful candidate will be examined by one of the European Union medical centres in order to confirm that the candidate fulfils the requirements of Article 12(2)(d) of the Conditions of Employment of Other Servants of the European Union (CEOS).

## 1.2 Specific

### 1.2.1 Qualifications<sup>12</sup>

To be eligible, a candidate must have a level of education, which corresponds to completed university studies of at least three years attested by a diploma.

**Candidates must indicate in their applications the official duration of studies and the graduation dates for all the diplomas they have obtained.**

## 2. Selection criteria

Applications will be assessed based on the Eligibility and Essential Selection Criteria specified in sections 1 and 2 of this vacancy notice. **Candidates are required to clearly indicate in their CVs how they acquired the knowledge and experience allowing them to meet the selection criteria mentioned below, and give specific examples.**

### 2.1 Essential selection criteria

In addition to the eligibility criteria above, the following essential selection criteria will be used. **Please note that all essential criteria are mandatory, meaning that no application will be assessed further if a candidate obtains a zero score in any of them:**

- At least five years of fulltime professional experience in building and/or maintaining and evolving large-scale data processing solutions, in any of the following roles:
  - Data Analyst;
  - Database Developer;
  - Database Administrator;
  - BI engineer;
  - Data Engineer;
  - Data Architect;

Please describe in your application the size of the project, the phases and role you participated in, and the technologies used;

- Expert knowledge in MS SQL proven by a minimum of three years of fulltime professional experience or industry standard certification.

### 2.2 Advantageous criteria

Candidates who meet all of the essential selection criteria will be scored against the following advantageous criteria:

- Excellent knowledge of Data Management best practices and standards as demonstrated by an industry standard certification (e.g., DAMA);

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<sup>12</sup> Only qualifications awarded by EU Member State authorities or European Economic Area (EEA) authorities or qualifications recognised as equivalent by the relevant authorities will be taken into consideration. If the main studies took place outside the European Union, the candidate's qualification must have been recognised by a body delegated officially for the purpose by one of the European Union Members States (such as a national Ministry of Education) and a document attesting so must be submitted with the application by the closing date.

- Proven work experience in Azure public cloud using Azure Data Platforms;
- Proven work experience with data analytics platforms (preferably Microsoft stack);
- Proven work experience in implementing APIs for internal and external use, defining and implementing Data Exchange specifications;
- Good knowledge of programming languages (i.e. Python, R, Java/JavaScript, C, C++, C#) proven by a minimum of one year fulltime professional experience or industry standard certification;
- Proven work experience with SAS;
- Proven work experience in using data modelling languages (e.g., UML, ERD) and tools (e.g., Erwin, ER/Studio);
- Experience in an EU/multicultural/international working environment.

### 2.3 Supplementary criteria

In addition to the above, candidates are expected to fulfil the following competencies which may be assessed during interviews:

- Good understanding of all steps of the data lifecycle;
- Proven work experience in working with Kubernetes and/or Docker on Cloud (preferably Azure);
- Practical knowledge of data interchange formats, such as XML and JSON;
- Knowledge of data warehousing principles and architectures;
- Expertise in data modelling principles/methods at conceptual, logical and physical levels;
- Good understanding of different dimensional model structures (star schema, snowflake schema, constellation schema) and their applications;
- Experience in using data mining or machine learning algorithms;
- Experience in analysing and representing business requirements and rules from a structural perspective, using appropriate data modelling techniques at the conceptual and logical levels;
- Experience in using data modelling methods and tools for designing relational and multidimensional databases;
- Experience in applying data integration processes and technologies to build pipelines for ETL & ELT data ingestion;
- Experience in applying data quality processes and technologies for the correction, enrichment, standardisation, and deduplication of data;
- Experience in applying reporting and data visualisation techniques and technologies to develop data analytics and insights;
- Experience in using SSMS and SSDT for developing and managing SQL Server relational databases and BI objects (AS tabular models, IS packages, RS reports);
- Practical experience with business glossaries, data dictionaries, and data catalogues;
- Experience in working with distributed and/or virtual teams, including external IT providers;
- Ability to determine appropriate IT solutions to specific business needs, applying strong problem-solving skills and critical thinking;
- Ability to clearly communicate complex technical ideas, regardless of the technical capacity of the audience;
- Strong interpersonal skills and ability to work as part of a team;
- Ability to manage his/her own workload and work without close supervision;
- Ability to work efficiently under time pressure;
- Ability to quickly adapt to new circumstances, and ability to learn fast.

### 3. Equal opportunities

As a European Union Authority, the EBA is committed to providing equal opportunities to all its employees and applicants for employment. As an employer, the EBA is committed to ensuring gender equality and to preventing discrimination on any grounds. It actively welcomes applications from all qualified candidates from diverse backgrounds, across all abilities, without any distinction on any ground such as sex, race, colour, ethnic or social origin, genetic features, language, religion or belief, political or any other opinion, membership of a national minority, property, birth, disability, age, marital status or other family situation or sexual orientation, and from the broadest possible geographical basis amongst the EU Member States.

In particular, the EBA encourages the applications of women for the positions where they are currently under-represented.

### 4. Selection procedure

#### 4.1 Selection committee

A selection committee will be established for each vacancy notice whose members are of the same or higher grade than the advertised position. All candidates shall be informed of the composition of the pre-selection panel in the acknowledgement of receipt for their application.

#### 4.2 Shortlisting

The selection committee will analyse application documents (curriculum vitae, motivation letter, and eligibility criteria grid) of applicants with reference to the eligibility and selection criteria and will establish a shortlist. **Candidates who do not meet all of the eligibility criteria will be excluded from the selection procedure. Eligible candidates will then be scored on the essential criteria. Those who meet all of the essential selection criteria will be scored against the advantageous criteria. Those candidates who do not meet all of the essential selection criteria will not be assessed further.**

The selection committee will invite to the interview and written test phase the candidates (maximum of 10)<sup>13</sup> who best correspond to the profile sought and on condition that they have achieved a score of at least 60% during the evaluation of applications.

#### 4.3 Assessments

Interviews and written tests may possibly be held remotely.

The written test will be designed to test the ability to communicate in written English, knowledge and competencies related to the job and drafting skills. Total mark for written test: 10 points. The minimum score to pass: 6 points.

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<sup>13</sup> In the case of equal performance, the number of candidates to be invited will be adjusted accordingly.

The interview will be held in English and aim to assess the motivation and the professional knowledge of the candidates as well as their suitability to perform the duties mentioned under main responsibilities. The total mark for the interview: 10 points. The minimum score to pass: 6 points.

#### 4.4 Reserve list

Successful candidates with a total score equal to and above 12 points will be placed on the reserve list, which will be valid until **31 December 2023**. It may be renewed. Inclusion on the reserve list does not guarantee recruitment. The successful candidate will be selected from the established reserve list which may also be used for the recruitment of a similar post depending on the needs of the EBA. When a vacancy becomes available, candidates on the reserve list may be contacted for additional interviews.

In accordance with Articles 11 and 11a of the Staff Regulations (SR) and Articles 11 and 81 of the Conditions of Employment of Other Servants of the European Union (CEOS) **the successful candidate will be required to make a declaration of the conflict of interest before recruitment**. The EBA's Executive Director will examine whether the successful candidate has any personal interest which may impair his/her independence or any other conflict of interest in relation to the position offered and will adopt appropriate measures. To that end, the successful candidate, using a specific form shall inform the Executive Director of any actual or potential conflict of interest.

Please note that the selection committee's work and deliberations are strictly confidential and that any contact with its members is strictly forbidden. Any contact made by the candidates or third parties in order to influence the members of the selection committee in relation to the selection constitutes grounds for disqualification from the selection procedure.

## 5. Appointment and conditions of employment

### 5.1 Contract type, duration and starting date:

The successful candidate will be offered a temporary agent<sup>14</sup> fixed-term contract of three years with a probation period of nine months and the possibility of extension.

The estimated starting date is **1 September 2022**.

**Information reserved for candidates employed as temporary agents under Article 2 (f) of the CEOS in other EU agencies:** If the successful applicant from the external selection procedure is already a member of temporary staff 2(f) in another EU Agency, the relevant provisions of the Decision of the Management Board laying down general implementing provisions on the procedure governing the engagement and use of temporary staff under Article 2(f) of the Conditions of Employment of Other Servants of the European Union(EBA/DC/2015/126)<sup>15</sup> will apply.

### 5.2 Function group and grade:

The successful candidates shall be recruited as a temporary agent at grade AD 5. The estimated monthly basic salary is from € 5,010.72.

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<sup>14</sup> See footnote 1

<sup>15</sup> Decision of Management Board - EBA/DC/2015/126

The details of the whole remuneration package are provided in Articles 62 – 70 and Annex VII to the Staff Regulations. For more information, please refer to Careers page of the EBA: <http://www.eba.europa.eu/about-us/careers>

### 5.3 Summary of the conditions of employment

- Salaries are exempted from national tax; instead, a Union tax at source is paid;
- The correction coefficient applicable to the remuneration of officials and other servants under Article 64 of the Staff Regulations for France shall apply;
- Depending on the individual family situation and the place of origin, staff members may be entitled to the following: expatriation allowance, household allowance, dependent child allowance, education allowance, installation allowance and reimbursement of removal costs, initial temporary daily subsistence allowance, and other benefits;
- Leave entitlements: annual leave - two days per calendar month plus additional days for age, grade, and 2.5 days of supplementary home leave granted to staff entitled to the expatriation allowance or foreign residence allowance; maternity leave; parental and family leave;
- Working arrangements: flexible working hours, teleworking arrangements, part-time working arrangements;
- EU Pension Scheme (after 10 years of service);
- EU Joint Sickness and Insurance Scheme, accident and occupational disease insurance coverage, unemployment and invalidity allowance;
- Free Access to an Accredited European School offering European education for children (please check the conditions on the school's website: <http://www.ee-parisladefense.ac-versailles.fr/en/>);
- Travel insurance when travelling on missions.

### 5.4 Place of employment

The offices of the European Banking Authority are located on Floors 24 - 27, Europlaza, 20 Avenue André Prothin, 92927 Paris, La Défense, France.

### 5.5 Ethics obligations

Independence and high standards of professional conduct are crucial for ensuring high standards and excellence for the work of the EBA. The Agency also strives to ensure that its staff do not have any interests that could affect their impartiality.

The successful candidate will be required to make a declaration of commitment to act independently in the public interest and to make an annual declaration with respect to any interests which might be considered prejudicial to his/her independence. In addition, the successful candidate will be bound to professional secrecy and to confidentiality requirements while working at the EBA and after having left; he/she will have to confirm their compliance with these requirements on a specific declaration of intention.

Before recruiting a member of staff, the EBA's Executive Director will examine whether the candidate has any personal interest which may impair his/her independence or any other conflict of interest. To



that end, the applicant, using a specific form, shall inform the Executive Director of any actual or potential conflict of interest.

Former staff members will be bound to seek clearance from the EBA before engaging in another activity for two years after leaving the Agency. If that activity is related to the work carried out during the last three years of service at the EBA, and it could lead to a conflict with the legitimate interests of the EBA, the Agency can give its approval subject to any conditions it sees fit or forbid the activity.

For more information on ethics obligations, please refer to the following documents:

- Decision of the Management Board EBA DC 006 of 12 January 2011 on EBA Code of Good Administrative Behaviour;<sup>16</sup>
- Decision of the Executive Director EBA DC 104rev1 of 10 May 2017 on the EBA's Policy on Independence and Decision Making Processes for avoiding Conflicts of Interest (Conflict of Interest Policy) for Staff and other Contractual Parties;<sup>17</sup>
- Commission Decision C(2018) 4048 final of 29 June 2018 on outside activities and assignments and on occupational activities after leaving the Service;<sup>18</sup>
- Decision of the Executive Director EBA DC 271 of 26 April 2019 on the Ethics Guidelines for EBA staff.<sup>19</sup>

## 6. Submission of Applications

Applications including a **curriculum vitae in the Europass format<sup>20</sup>**, a **motivation letter**, and the **completed eligibility criteria grid** should be submitted in English in **pdf format** to the following address: [eba-oper-it-ta6-selection@eba.europa.eu](mailto:eba-oper-it-ta6-selection@eba.europa.eu) **extended to 22 August 2022 at 12.00 noon Paris time** ~~30 June 2022 at 12.00 noon Paris time~~.

**Please indicate the reference number of this selection, your name and surname in the subject of your email.**

The EBA will disregard any application received after deadline. Applicants are strongly advised not to wait until the last day to submit their applications, since heavy internet traffic or fault with the internet connection could lead to difficulties in submission. The EBA cannot be held responsible for any delay due to such difficulties.

**Only complete applications will be accepted and considered.** In order for the application to be considered complete candidates must send all documents: curriculum vitae in the Europass format, motivation letter, and the completed eligibility criteria grid and a copy of the document formally recognising your qualification within the EU, if applicable, (see footnote 12) before the deadline.

Candidates should assess and check before submitting their application whether they fulfil all the requirements as specified in the vacancy notice, particularly in terms of qualifications and relevant professional experience.

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<sup>16</sup> EBA Code of Good Administrative Behaviour (EBA DC 006)

<sup>17</sup> EBA Conflict of Interest Policy (EBA DC 104 rev1)

<sup>18</sup> Outside activities and Occupational activities after leaving the Service

<sup>19</sup> EBA Ethics Guideline for EBA staff (EBA DC 271)

<sup>20</sup> <http://www.eba.europa.eu/about-us/careers/practical-information>

**Professional experience indicated on the curriculum vitae is only counted from the time the candidate obtained the certificate or diploma required for the position and if it is on a paid basis (including study grants or internship grants). PhDs may be counted as professional experience if the candidate received a study grant or salary during the period of the PhD studies, – please indicate clearly on your CV if this is the case.** The maximum duration counted for a PhD is three years provided that the PhD has been successfully concluded by the closing date for applications of the selection procedure.

**Exact start and end dates of all professional experience (in the format of “dd/mm/yyyy”) and whether full time or part time work must be clearly indicated on the curriculum vitae.** Freelance or self-employed candidates must provide either a copy of the entry in the relevant trade register, or any official document (for example a tax return document) showing clearly the length of the relevant professional experience. Details of any professional experience, training, research or studies must be given on the application form. Candidates must be able to provide of supporting documents clearly showing duration and nature of experience upon request.

The address indicated on the curriculum vitae will be used as the location from which the candidates invited to interviews travel.

At this stage, please do not send supporting documents (copies of ID cards, passports, diplomas, etc.) unless it is to demonstrate the recognition of your qualification within the EU, if applicable, (see footnote 12).

## 7. Data protection

EBA will ensure that candidates’ personal data are processed as required by Regulation (EU) 2018/1725<sup>21</sup>. This applies in particular to the confidentiality and security of such data.

## 8. Appeal Procedure

Candidates who consider that their interests have been prejudiced by any decision related to the selection procedure can take the following actions:

### 8.1 Request for review of the decisions taken by the Selection Committee

Within ten calendar days of the date of the letter notifying the candidate of a decision taken by the Selection Committee, he/she may submit a written request for a review of such a decision, setting out the reasons for the request, to the following e-mail address: [EBA-vacancies@eba.europa.eu](mailto:EBA-vacancies@eba.europa.eu).

### 8.2 Appeals

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<sup>21</sup> Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39)

a) The candidate may lodge a complaint under Article 90(2) of the Staff Regulations within the time limits provided for, at the following address:

The Executive Director  
European Banking Authority  
Selection procedure: **Ref. OPER IT TA 6/2022**  
DEFENSE 4 – EUROPLAZA  
20 Avenue André Prothin  
CS 30154  
92927 Paris La Défense CEDEX  
France

b) The candidate can submit a judicial appeal to the General Court under Article 270 of the Treaty on the Functioning of the European Union and Article 91 of the Staff Regulations.

For details of how to submit an appeal, please consult the website of the General Court:  
<http://curia.europa.eu/>

### 8.3 Complaint to the European Ombudsman

It is also possible to lodge a complaint to the European Ombudsman pursuant to Article 228(1) of the Treaty on the Functioning of the European Union and in accordance with the conditions laid down in the Decision of the European Parliament of 9 March 1994 on the Staff Regulations and the general conditions governing the performance of the European Ombudsman's duties<sup>22</sup>.

For details of how to lodge a complaint, please consult the website of the European Ombudsman:  
<http://www.ombudsman.europa.eu/>

Please note that complaints made to the European Ombudsman have no suspensive effect on the period laid down in Articles 90(2) and 91 of the Staff Regulations for lodging, respectively, a complaint or an appeal with the General Court. Furthermore, under Article 2(4) of the general conditions governing the performance of the European Ombudsman's duties, any complaint lodged with the European Ombudsman must be preceded by the appropriate administrative approaches to the institutions and bodies concerned.

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<sup>22</sup> OJ L 113 of 4 May 1994.