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**Invitation for expression of interest for up to three (3) fixed term research contracts for the project “DEVELOPER-CENTRIC KNOWLEDGE MINING FROM LARGE OPEN-SOURCE SOFTWARE REPOSITORIES (CROSSMINER)” (positions code 2582-PR2)**

The Research Center of the Athens University of Economics and Business (RC/AUEB) in the frame of the European Union funded research project “**DEVELOPER-CENTRIC KNOWLEDGE MINING FROM LARGE OPEN-SOURCE SOFTWARE REPOSITORIES (CROSSMINER)**” project code **ER-2582-01** and under the supervision of the Scientist Responsible for the project, Professor Diomidis Spinellis, invites, in accordance with the decision of the 14<sup>th</sup> Meeting of the Research and Management Committee of RC/AUEB of the academic year 2017-2018, dated on 28/03/2018 (ADA: ΩΕ77469B4M-4EZ), applications for up to three (3) researcher positions on fixed term up to 20 months work contracts (with the possibility of renewing until the end of the project), starting immediately, for the implementation of the following project:

**«Applied Software Engineering»**

**Position A1**

**Estimated duration:** up to 20 months, may be extended until the end of the project.

**Budget:** up to 22,000 EURO including all taxes and deductions. If necessary and/or applicable, employer’s social security contribution payable by RC/AUEB, will be added accordingly, charging the aforementioned project.

**Required Candidate Qualifications**

- Undergraduate domestic university degree, or foreign equivalent (**exceptional cases of undergraduate domestic university students may be accepted**), in the fields of Informatics or Computer Science or Computing Engineering or Electrical Engineering or Management Science and Technology or Mathematics or Applied Mathematics or Statistics.

- Good knowledge of Computer Programming. **It will be assessed via transcript of records and course specifications as described by the degree programme guide where required.**
- Good knowledge of the English language.
- Ability to occasionally travel for work in Europe. **In order for the application to be valid the corresponding field in APPENDIX A' needs to be checked.**

#### Desired Candidate Qualifications

- Published software or open source software contributions.
- Competence in using tools for data representation and analysis.
- Competence in using configuration management and deployment tools.
- Personal web site
- Research experience in EU and/or national projects.
- Professional experience in computer programmer posts.
- Reference letters from employers or/and Professors in topics related to Computer Programming.

**ATTENTION: Wherever knowledge of tools is required to be certified via website links, these need to be cited in the CV submitted with the application, in a dedicated field titled LINKS TO WEBSITES/POSITION A1**

#### RANKING MATCH IN QUALIFICATION CRITERIA

**The calculation of grading units shall rely upon the fulfillment of all the Required Candidate Qualifications and shall be objectively connected with the project requirements.**

AA	Assessment Criteria	Comments	Maximum grade of criterion	Criterion importance
1.	Undergraduate domestic university degree, or foreign equivalent <b>(exceptional cases of undergraduate domestic university students may be accepted)</b> , in the fields of Informatics or Computer Science or Computing Engineering or Electrical Engineering or Management Science and Technology or Mathematics or Applied Mathematics or Statistics.	Degree grade X 2 or <b>in the case of undergraduate students</b> , current transcript average X 2	20	20

2.	Excellent knowledge of Computer Programming	Course grade X 0.25 for each course related to Computer Programming. A maximum of 8 courses will be taken into account for assessment	20	15
3.	Knowledge of the English language	C1 = 8, C2=10	10	15
4.	Published software or open source software contributions.	IN CV: LINKS TO WEBSITES / POSITION A1	10	15
5.	Competence in using tools for data representation and analysis.	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	16	15
6.	Competence in using configuration management and deployment tools	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	16	15
7.	Personal web site	IN CV: LINKS TO WEBSITES / POSITION A1	10	5
8.	Proven research experience in EU and/or national projects.	1 grade for every 2 months of related work experience. Maximum interval taken into account for assessment: 24 months	12	5

9.	Proven professional experience in computer programmer posts	1 grade for every 2 months of related work experience. Maximum interval taken into account for assessment: 24 months	12	5
10.	Reference letters from employers or/and Professors in topics related to Computer Programming	Five (5) grades for each reference letter. A maximum of two (2) reference letters will be taken into account for assessment.	10	5

### **Position A2**

**Estimated duration:** up to 20 months; may be extended until the end of the project.

**Budget:** up to 30,000 EURO including all taxes and deductions. If necessary and/or applicable, employer's social security contribution payable by RC/AUEB, will be added accordingly, charging the aforementioned project.

### **Required Candidate Qualifications:**

- **Undergraduate domestic university degree or foreign equivalent**, in the fields of Informatics or Computer Science or Computing Engineering or Electrical Engineering or Management Science and Technology or Mathematics or Applied Mathematics or Statistics, **graded on a 1-10 scale**.
- Good knowledge of the English language.
- Competence in performing and automating data analysis processes. **Related skills need to be certified either with description of related curriculum courses completed via studying or by related publications.**
- Ability to occasionally travel for work in Europe. **In order for the application to be valid the corresponding field in APPENDIX A' needs to be checked.**

### **Desired Candidate qualifications:**

- **Master's degree** on topics related to Informatics or Data Analysis, **graded on a 1-10 scale**.
- Candidates wishing to pursue a Phd (through a separate application to the Department of Management Science and Technology) must have the qualifications required by the Department's postgraduate study regulations.
- Knowledge of additional foreign languages.

- Published software or open source software contributions
- Knowledge, competence and experience related to: programming languages and technologies, programming tools, tools for data representation and analysis, tools for configuration management and deployment.
- Personal web site.
- Scientific publications in international top tier journals and conferences.
- Professional experience in computer programmer posts
- Research experience in EU and/or national projects.
- Reference letters from employers or/and Professors in topics related to Computer Programming.

**ATTENTION: Wherever knowledge of tools is required to be certified via website links, these need to be cited in the CV submitted with the application, in a dedicated field titled LINKS TO WEBSITES/POSITION A2**

#### **RANKING MATCH IN QUALIFICATION CRITERIA**

**The calculation of grading units shall rely upon the fulfillment of all the Required Candidate Qualifications and shall be objectively connected with the project requirements.**

AA	Assessment Criteria	Comments	Maximum grade of criterion	Criterion importance
1.	<b>Undergraduate domestic university degree or foreign equivalent</b> , in the fields of Informatics or Computer Science or Computing Engineering or Electrical Engineering or Management Science and Technology or Mathematics or Applied Mathematics or Statistics, <b>graded on a 1-10 scale.</b>	Degree grade X 2	20	20
2.	<b>Master's degree</b> on topics related to Informatics or Data Analysis, <b>graded on a 1-10 scale.</b>	Degree grade X 2	20	20
3.	Knowledge of the English language	C1 = 8, C2=10	10	15
4.	Knowledge of additional foreign languages	B2=4, C1 = 8, C2=10	10	5
5.	Published software or open source software contributions	IN CV: LINKS TO WEBSITES / POSITION A2	10	15

6.	Competence in programming languages and technologies	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	16	15
7.	Competence in using programming tools.	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	16	15
8.	Competence in using tools for data representation and analysis	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	16	15
9.	Competence in using configuration management and deployment tools	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	16	15
10.	Personal web site	IN CV: LINKS TO WEBSITES / POSITION A2	10	5
11.	Scientific publications in international top tier journals and conferences.	Five (5) grades for each publication. A maximum of four (4) publications will be taken into account for assessment.	20	15
12.	Proven professional experience in computer programmer posts	Five (5) grades for each year of experience. Maximum interval taken into account for assessment: two (2) years	10	10
13.	Proven research experience in EU and/or national projects.	Five (5) grades for each year of experience. Maximum interval taken into account for assessment: two (2) years	10	10

14.	Reference letters from employers or/and Professors in topics related to Computer Programming.	Five (5) grades for each reference letter. A maximum of to two (2) reference letters will be taken into account for assessment.	10	5
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### **Position A3**

**Estimated duration:** up to 20 months; may be extended until the end of the project.

**Budget:** up to 44,000 EURO including all taxes and deductions. If necessary and/or applicable, employer's social security contribution payable by RC/AUEB, will be added accordingly, charging the aforementioned project.

#### **Required Candidate Qualifications:**

- **University/Technical University degree, domestic or foreign equivalent**, in Electronic and Computer Engineering or Informatics or Statistics or Computer Science or Mathematics **graded on a 1-10 scale.**
- **Master's degree** in topics related Informatics or Data Analysis **graded on a 1-10 scale.**
- Excellent knowledge of the English language.
- Ability to occasionally travel for work in Europe. **In order for the application to be valid the corresponding field in APPENDIX A' needs to be checked.**

#### **Desired Candidate Qualifications:**

- **Doctoral Degree** in Informatics or Electrical and Computer Engineering or Computer Science.
- Knowledge of additional foreign languages.
- Published software or open source software contributions.
- Knowledge, competence and experience related to: programming languages and technologies, programming tools, tools for data representation and analysis, tools for configuration management and deployment.
- Personal web site.
- Scientific publications in international top tier journals and conferences.
- Reference letters from employers or/and Professors in topics related to Computer Programming.
- Research experience in EU and/or national projects.
- Proven professional experience in computer programmer posts.

**ATTENTION: Wherever knowledge of tools is required to be certified via website links, these need to be cited in the CV submitted with the application, in a dedicated field titled LINKS TO WEBSITES/POSITION A3**

## RANKING MATCH IN QUALIFICATION CRITERIA

**The calculation of grading units shall rely upon the fulfillment of all the Required Candidate Qualifications and shall be objectively connected with the project requirements.**

AA	Assessment Criteria	Comments	Maximum grade of criterion	Criterion importance
1	<b>University/Technical University degree</b> , domestic or foreign equivalent, in Electronic and Computer Engineering or Informatics or Statistics or Computer Science or Mathematics <b>graded on a 1-10 scale.</b>	Degree grade X 2	20	20
2.	<b>Master's degree</b> in topics related Informatics or Data Analysis <b>graded on a 1-10 scale.</b>	Degree grade X 2	20	20
3.	<b>Doctoral degree</b> in Informatics or Electrical and Computer Engineering or Computer Science.		30	20
4.	Knowledge of additional foreign languages.	B2=4, C1 = 8, C2=10	10	5
5.	Published software or open source software contributions.	IN CV: LINKS TO WEBSITES / POSITION A3	10	15
6.	Competence in programming languages and technologies	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	12	15
7.	Competence in using programming tools.	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	12	15
8.	Competence in using tools for data representation and analysis	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	12	15



9.	Competence in using configuration management and deployment tools	For each language or technology: 1 for basic level knowledge, 2 for expert level knowledge	12	15
10.	Personal web site	IN CV: LINKS TO WEBSITES / POSITION A3	10	5
11.	Scientific publications in international top tier journals and conferences.	Five (5) grades for each publication. A maximum of five (5) publications will be taken into account for assessment.	25	20
12.	Reference letters from employers or/and Professors in topics related to Computer Programming.	Five (5) grades for each reference letter. A maximum of two (2) reference letters will be taken into account for assessment.	10	5
13.	Proven research experience in EU and/or national projects.	Five (5) grades for each year of experience. Maximum interval taken into account for assessment: five (5) years	25	15
14.	Proven professional experience in computer programmer posts	Two (2) grades for each year of experience. Maximum interval taken into account for assessment: five (5) years	10	10

#### **OTHER TERMS AND CONDITIONS**

1) Any objections to the results of the candidates' evaluation should be submitted strictly within a period of five (5) working days from the day following the announcement of the results on the website of RC/AUEB (<http://rc.aueb.gr/el/static/home>). Objections should be specific and should be submitted in person or sent by post to the address: 46, Kefallinias Street, Athens, 11251, Greece. In order to ensure that the applicant exercises his/her rights in accordance with the legal procedure (written application, documentation of legal interest, etc.), the right of access to other candidates' personal files and data shall be exercised in favor of the applicant in accordance with the combined provisions of Law 2472/1997 and Law 2690/1999, and provided it complies with the conditions set out in C/EX/4163-1/7.6.2012 document of the Hellenic Data Protection Authority (HDPa).

2) Any submitted candidacy that does not meet the required qualification of the call will not be examined any further and will consequently be rejected. The recognition of academic and professional qualifications and skills, including non-standardized qualifications with an emphasis

on geographical and professional mobility of the candidates, particularly concerning academic and professional international mobility, will be in accordance to the implementation of international standards and the relevant European and international legal framework<sup>1</sup>.

**3) Greek candidates' higher education degrees (undergraduate and postgraduate) that are a required qualification and have been issued by foreign institutions must be accompanied by certificates of recognition by the Hellenic National Academic Recognition and Information Center (Hellenic NARIC).**

4) **Language knowledge** for Greek citizens shall be certified according to Article 1 of Presidential Decree 146/2007 "Modification of provisions of Presidential Decree 50/2001 Defining qualifications for the appointments of posts in the public sector" (Official Gazette 185/3.8.2007/Issue A'), in conjunction with the last passage of paragraph 1 of Article 1 of the Presidential Decree 116/2006 "Amendment of Article 28 of Presidential Decree 50/2001" (Official Gazette 115/9.6.2006/Issue A'). **Regarding the certification of knowledge of any foreign language, a photocopy of the original certificate together with a photocopy of its official translation in Greek should be submitted.**

5) Male candidates, on condition that military service is obligatory in their country of residence, should have fulfilled their military obligations or have been legally exempted from them throughout the duration of the project contract.

6) If the selected candidates are Greek public servants, they shall bear the responsibility to comply with the requirements of Article 31 of Act 3528/2007.

7) Please note that the invitation for work contracts concerning the project is not a competitive tendering procedure, while the potential selection of counterparties shall be interpreted as an acceptance of a proposal and not as "hiring". The said process will be completed with the announcement of a ranking list, while those candidates selected will be notified individually. In case of a tie, the candidate whose application has the highest relevance of subject and longest professional experience will be selected.

8) Throughout the duration of the project and the contract it is possible that selected candidate(s) may be replaced by other candidate(s) of the present call and in accordance with the ranking list.

9) This invitation for expression of interest is not binding for RC/AUEB to establish cooperation with stakeholders and does not create rights expectation. RC/AUEB reserves the right to select the candidate, as well as full discretion in the conclusion or not of the relevant contracts, excluding any claim by the candidates.

10) The terms and working conditions will comply with all national and international relevant regulations. RC/AUEB will fully implement the existing international and European labor law, incorporated into Greek law, in all settings, and in particular regarding the rights and benefits the selected candidate is entitled to.

11) RC/AUEB may, upon decision, extend the contract, provided that such an extension is in accordance with relevant Greek and international legislation.

12) This invitation for expression of interest is published on the websites of RC/AUEB, AUEB and EURAXESS as part of the project "DEVELOPER-CENTRIC KNOWLEDGE MINING FROM LARGE OPEN-SOURCE SOFTWARE REPOSITORIES (CROSSMINER)", taking into account and being in accordance with the terms of the Grant Agreement No. 732223 and the Commission Recommendation of 11/3/2005 concerning the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (OJ L75/67 2005/251/ EK), the European Code of Conduct for Research Integrity of ALLEA (ALL European Academies) and ESF (European Science Foundation) of March 2011  
[http://www.esf.org/fileadmin/Public\\_documents/Publications/Code\\_Conduct\\_Research\\_Integrity](http://www.esf.org/fileadmin/Public_documents/Publications/Code_Conduct_Research_Integrity)

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<sup>1</sup> published in NARIC (national centers for the recognition of academic titles) and ENIC (European network information centers).

[.pdf](#), and Commission Recommendation C (2008) 1329 of 10/4/2008 on the management of intellectual property, which are annexed hereby and subject to acceptance by the candidates.

#### REQUIRED APPLICATION DOCUMENTS

- 1) Form of Annex A'
- 2) Detailed CV in English or Greek.
- 3) Copies of academic titles, degrees, credentials and certificates, and any other information documenting the data included in the CV (validated copies shall be provided exclusively upon request)
- 4) CD including all documents in the candidate's application

Candidates are invited to submit their applications (form in Annex A') accompanied by CV and copies of diplomas and any other information documenting the data included in CV, to the address: **RC AUEB, 46, Kefallinias Street, Athens, 11251, Greece, Reception, 1st floor, until 24/04/2018 at 16:00 (please note that RC AUEB will be closed from 04/04/2018 to 11/04/2018)**, with the following indication: **"Participation to the call for expression of interest in the context of the research project "DEVELOPER-CENTRIC KNOWLEDGE MINING FROM LARGE OPEN-SOURCE SOFTWARE REPOSITORIES (CROSSMINER)" (positions code 2582-PR2)**. In case of postal dispatch, the postal date will be considered as the date of submission. In order to facilitate the candidates' assessment, **in addition to submitting their applications as specified above**, candidates are invited to submit, within the above mentioned deadline, the online application form <https://goo.gl/forms/u7R26RzqJODuYA5R2>. Contact details: Vasiliki Efstathiou, tel: +30 210-8203508, email: [vefstathiou@aub.gr](mailto:vefstathiou@aub.gr)

The President of RC/AUEB

Professor Dimitris Gritzalis  
Associate Rector

**ANNEX A'**

**Name:** .....

**Surname:** .....

**Address:** .....

**Tel:** .....

**E-mail:** .....

**TO RC/AUEB**

**APPLICATION – CODE No. 2582-PR2**

**Call for expression of interest for up to three (3) fixed term work contracts concerning the project “DEVELOPER -CENTRIC KNOWLEDGE MINING FROM LARGE OPEN-SOURCE SOFTWARE REPOSITORIES (CROSSMINER)” positions code 2582-PR2.**

In response to the call of expression of interest with ref. no. ...., I hereby submit my application for position **A1\*** or **A2\*** or **A3\*** for the project “**DEVELOPER -CENTRIC KNOWLEDGE MINING FROM LARGE OPEN-SOURCE SOFTWARE REPOSITORIES (CROSSMINER)**”, project code **EP-2582-01**.

I confirm my ability to occasionally travel in Europe for work-related needs.

**\* Please mark position ID accordingly**

I also attach a detailed CV and all necessary, according to the call, required documents:

**Date: .../.../2018**

**Signature: .....**