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CALL FOR EXPRESSION OF INTEREST

The Research Committee (Special Account for Research Funds) of Aristotle University of Thessaloniki, in the framework of the project "**EuroCC: National Competence Centre - EuroHPC**" funded by the European Union under the program HORIZON 2020, with Academic Head, Ms. Athena Vakali Professor at School he Department of Informatics, Aristotle University, invites candidates to submit applications for **four (4) positions**, through the award of a work contract until 31/08/2022, with a total anticipated remuneration of 40.000,00€ (VAT and taxes included).

One (1) researcher with PhD with specialization in performance analysis of information/network systems / up to 24.000,00€ / until 31-08-2022

JOB DESCRIPTION (A)

- Design and analysis of requirements for the mapping of competences in Big Data

The aforementioned tasks will be implemented under the framework of the WP11 of the Greek National Competence Centre

REQUIRED QUALIFICATIONS

- Degree/Diploma of Faculty of Sciences or Faculty of Engineering
- PhD in performance analysis of information/network systems
- At least two (2) publications in international journals or magazines in the area of performance analysis of information/network systems
- At least one (1) publication in international conference proceedings in the area of performance analysis of information/network systems
- At least good knowledge of the English language (B2 Certification)

ADDITIONAL QUALIFICATIONS

- Proven knowledge in:
 - Performance analysis of information/network systems
 - Optimization
 - Computer architectures

The knowledge is documented by relevant dissertation(thesis) or with relevant courses in the course of study (detailed grades and if the title of the course does not directly lead to the correlation, the detail grades document will be accompanied by the description of the course in the course of study) or a relevant certificate.

- Publications in international journals or magazines in the area of performance analysis of information/network systems
- Announcements in international conference proceedings in the area of performance analysis of information/network systems
- Interview

QUALIFICATIONS ASSESSMENT

	Qualifications criteria	Credits (Researchers)
1	Publications in international journals or magazines (per publication) and up to 4 publications	40 (per publication)
2	Announcements in international conference proceedings (per Announcement) and up to 5 publications	15 (per Announcement)
3	Proven knowledge in: performance analysis of information/network systems	15
4	Proven knowledge in: Optimization	20
5	Proven knowledge in: Computer architectures	15
6	Interview (The evaluation criteria, which are graded, are defined)	≤150

All the above qualifications should be in relevance with the project requirements and objectives.

One (1) researcher with PhD with specialization in distributed data management / up to 5.000,00€ / until 31-08-2022

JOB DESCRIPTION (B)

- Techniques and criteria of technology transfer to facilitate scientific knowledge with emphasis on distributed data processing

The aforementioned tasks will be implemented under the framework of the WP11 of the Greek National Competence Centre

REQUIRED QUALIFICATIONS

- Graduates from Faculty of Sciences or Faculty of Engineering with specialization in Informatics.
- PhD in the research area of "Distributed Data Management".
- A minimum of three (3) years of research experience* in research projects.
- A minimum of three (3) publications in scientific journals in the research area of Distributed Data Management.
- At least good knowledge of the English language (B2 Certification)

ADDITIONAL QUALIFICATIONS

- Master's degree in Informatics of at least one year of studies with specialization in data knowledge and software technologies
- Announcements in scientific conferences in the research area of data analysis
- Added research experience* in research projects.
- Proven knowledge in:
 - Data mining

The knowledge is documented by relevant dissertation(thesis) or with relevant courses in the course of study (detailed grades and if the title of the course does not directly lead to

the correlation, the detail grades document will be accompanied by the description of the course in the course of study) or a relevant certificate.

- Interview

QUALIFICATIONS ASSESSMENT

	Qualifications criteria	Credits (Researchers)
1	Master's degree in Informatics of at least one year of studies with specialization in data knowledge and software technologies	200
2	Proven Knowledge in Data Mining	50
3	Announcements in scientific conferences in the research area of data analysis (per announcement and up to 6)	15 (per announcement)
4	Added research experience* in research projects (per month up to 48 months)	7 (per month)
5	Interview (The evaluation criteria, which are graded, are defined)	≤150

All the above qualifications should be in relevance with the project requirements and objectives.

One (1) PhD candidate with specialization in users' behavioral analysis in the web/ up to 2.000,00€ / until 31-08-2021

JOB DESCRIPTION (C)

- Design of scientific and technical specialization procedures in the subjects of Artificial Intelligence and Big Data

The aforementioned tasks will be implemented under the framework of the WP11 of the Greek National Competence Centre

REQUIRED QUALIFICATIONS

- Degree of School of Informatics or Applied Informatics
- PhD candidate in the research field of "Analysis of user data in the World Wide Web"
- At least 2 publication in peer-review scientific journals in the field of "Measurement of scientific and other data"
- Experience* of at least 1,5 years in research projects in the area of "development of personalized services"
- At least good knowledge of English language (B2 certificate)

** The knowledge is documented by relevant dissertation(thesis) or with relevant courses in the course of study (detailed grades and if the title of the course does not directly lead to the correlation, the detail grades document will be accompanied by the description of the course in the course of study) or a relevant certificate.*

ADDITIONAL QUALIFICATIONS

- University MSc with specialization in Data Science
- Proven knowledge in:
 - Big Data analytics
 - Machine Learning
 - Web data mining

The knowledge is documented by relevant dissertation(thesis) or with relevant courses in the course of study (detailed grades and if the title of the course does not directly lead to the correlation, the detail grades document will be accompanied by the description of the course in the course of study) or a relevant certificate.

- Interview

QUALIFICATIONS ASSESSMENT

	Qualifications criteria	Credits (Researchers)
1	University MSc with specialization in Data Science	200
2	Proven knowledge in: Big Data analytics	15
3	Proven knowledge in: Machine Learning	15
4	Proven knowledge in: Web data mining	20
6	Interview (The evaluation criteria, which are graded, are defined)	≤150

One (1) PhD Candidate in the field of Business Process Management / up to 9.000.00 € / until 31-08-2022

JOB DESCRIPTION (D)

- Plan for collaboration with industry.

The aforementioned tasks will be implemented under the framework of the WP11 of the Greek National Competence Centre

REQUIRED QUALIFICATIONS

- Degree/Diploma of Faculty of Sciences or Faculty of Engineering
- PhD Candidate in the field of Business Process Management (the status is proved by a relevant certificate of the Department concerned)
- One (1) publication in international conference proceedings in the area of business process management
- One (1) publication in international journals or magazines in the area of business process management
- Six (6) months of research/professional experience in participating in business process management related projects.
- Proven knowledge on:
 - Java
The knowledge is documented by relevant dissertation(thesis) or with relevant courses in the course of study (detailed grades and if the title of the course does not directly lead to the correlation, the detail grades document will be accompanied by the description of the course in the course of study) or a relevant certificate.
- At least good knowledge of the English language (B2 Certification)

ADDITIONAL QUALIFICATIONS

- Proven knowledge in:
 - Artificial Intelligence
 - Mining from Massive Datasets
 - Distributed and Internet Computing*The knowledge is documented by relevant dissertation(thesis) or with relevant courses in the course of study (detailed grades and if the title of the course does not directly lead to the correlation, the detail grades document will be accompanied by the description of the course in the course of study) or a relevant certificate.*
- Interview

QUALIFICATIONS ASSESSMENT

	Qualifications criteria	Credits (Researchers)
1	Bachelor's degree grade	degree * 40
2	Artificial Intelligence	40
3	Mining from Massive Datasets	20
4	Distributed and Internet Computing	10
5	Interview (The evaluation criteria, which are graded, are defined)	≤150

All the above qualifications should be in relevance with the project requirements and objectives.

Those interested or those who have been considered a good fit (meet the minimum criteria) will be interviewed, except for those who will score at least 80 points (interview score range) lower score than the first candidate in the ranking. During the interview the committee will submit technical queries from a previously known list of topics to determine the knowledge of the candidate, by focusing on their qualifications.

The candidates who do not attend the interview will be rejected.

The topics of the questions and the scoring system to be used for each object are displayed in the following table:

Job Description A

S/N	Thematic chapter	Knowledge level/ Scoring units	Maximum score
1	Advanced knowledge in data analysis and machine learning with programming tools and frameworks (Python, networkx SciKit)	No knowledge - 0 Introductory Knowledge - 12 Intermediate level - 25 Capable - 37 Specialist - 50	50
2	Advanced knowledge in optimization techniques and use of specialized frameworks (cvxpy)	No knowledge - 0 Introductory Knowledge - 12 Intermediate level - 25 Capable - 37 Specialist - 50	50
3	Advanced knowledge in networks and distributed systems	No knowledge - 0 Introductory Knowledge - 12 Intermediate level - 25 Capable - 37 Specialist - 50	50

Job Description B

S/N	Thematic chapter	Knowledge level/ Scoring units	Maximum score
1	Specialized knowledge in code maintenance tools (revision control) (git)	No knowledge - 0 Introductory Knowledge - 15 Intermediate level - 35 Capable - 50 Specialist - 75	75
2	Advanced knowledge in distributed computing technologies (Spark, Hadoop)	No knowledge - 0 Introductory Knowledge - 15 Intermediate level - 35 Capable - 50	75

		Specialist – 75	
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Job Description C

S/N	Thematic chapter	Knowledge level/ Scoring units	Maximum score
1	Specialized knowledge in machine learning with programming tools and frameworks (Python, SciKit)	No knowledge - 0 Introductory Knowledge - 15 Intermediate level - 35 Capable - 50 Specialist – 75	75
2	Specialized knowledge in code maintenance tools (revision control) (git)	No knowledge - 0 Introductory Knowledge - 15 Intermediate level - 35 Capable - 50 Specialist – 75	75

Job Description D

S/N	Thematic chapter	Knowledge level/ Scoring units	Maximum score
1	Advanced knowledge in code development tools (Java, Scala)	No knowledge - 0 Introductory Knowledge - 15 Intermediate level - 35 Capable - 50 Specialist – 75	75
2	Advanced knowledge in distributed computing technologies (Spark, Hadoop)	No knowledge - 0 Introductory Knowledge - 15 Intermediate level - 35 Capable - 50 Specialist – 75	75

Documents Required:

1. Application Form (see appendix)
2. Table data proof of experience, if needed (see appendix)
3. Curriculum Vitae
4. A Bachelor's degree copy
5. Copies of the degrees and certifications mentioned in the CV and are relevant to the qualifications.
6. Copy of military status certificate or discharge certificate / Copy of postponement certificate (for male candidates)

*** Proof of Experience:**

Employment Certification or/and employment contract, detailing the duration and the job duties and responsibilities.

Applications should be submitted by e-mail to (info@csd.auth.gr) email subject: «71668 EuroCC Prof. Vakali» or in person or by post to the following address Secretariat of the Department of Informatics of AUTH, Administration Building of the School of Sciences, University Campus 54124

Thessaloniki, hours 11.00-12.30pm **no later than the 11/01/2021 at 12:30** (Applications will be attributed a reference number).

For more information and questions regarding the position, candidates may refer to **2310-996355 (G. Andreadis)**, while for information on the application process can contact ΕΑΚΕ ΑΠΘ **2310- 994022, 994009, 994082**,

Submitted proposals will be evaluated by a three-member Evaluation Committee based on the requirements/provisions of the call.

The candidates should be informed of the evaluation results from the Research Committee website: <https://www.rc.auth.gr/JobPosition/List>

The candidate who wishes to submit an objection to the result (decision to accept results) is entitled to recourse by e-mail to prosk@rc.auth.gr or in person or by post to the Special Account of Research Authorities of the Aristotle University of Thessaloniki (ΚΕΔΕΑ Building, 3 September - Thessaloniki, Postal Code: 54636, 1st floor, Office 101) within five (5) working days from the day following the posting of the decision to accept results on the website of the ELKE Aristotle University of Thessaloniki. The candidate has the obligation to be informed about the posting of the results from the website of ELKE <https://www.rc.auth.gr/JobPosition/List>, in the online posting of this invitation. It should be noted that applicants are entitled to have access to the details of the individual application file and the assessment and evaluation papers of their own and of their other co-candidates, upon written request within five (5) working days of the day following announcement of the results on the ELKE website and under the conditions of articles 5 of Law 2690/1999 and 5 par. e 'of Law 2472/1997. Where specific data categories are included, they are only granted under the General Data Protection Regulations and other applicable provisions.

EVALUATION PROCEDURE – OTHER CONDITIONS

1. From all the applications submitted, according to the above specifications, the one that best meets the project's requirements will be selected and awarded a work contract.
2. Only applications submitted within the period mentioned above will be considered. In case of postal submission, the Research Committee of AUTH will not bear any responsibility for the submission time or the content of the files that will be sent.
3. Changes to the application (replacements, corrections or submission of additional documents) are not allowed after the expiration of the deadline.
4. For candidates, higher education degrees, pertaining to the required or additional qualifications that have been issued by foreign institutions, must be recognized by the Hellenic National Academic Recognition and Information Center (Hellenic NARIC). In addition, when a scale of grading/points awarded for a degree is foreseen in the call for expression of interest, it is required to submit a certificate of the equivalent degree grade given by the Hellenic National Academic Recognition and Information Center (NARIC). In the case that, all certificates for the recognition of a degree are provided but the certificate of the equivalent degree grade by NARIC is not submitted, the candidate's application will be accepted but no points for the degree will be awarded.
5. It should be noted that the invitation for awarding work contracts in the framework of the project is not a competitive tendering procedure, while the potential selection of counterparties should be interpreted as an acceptance of a proposal for hiring and not as "hiring". The aforementioned process will be completed with the announcement of a ranking list, while those candidates selected will be personally notified. In case of a tie, the candidate whose application has a) the longest experience, b) the greatest bachelor's degree mark, or c) the greatest master's degree mark, will be selected.
6. Any submitted candidacy that does not meet the criteria of the call will not be examined any further and will be automatically rejected.
7. Throughout the duration of the project it is possible that the selected candidate(s) may be replaced, if necessary, by other candidate(s) of the present call and in accordance with the ranking list.
8. This call for expression of interest does not, under any circumstances, bind the Research Committee of AUTH to establish cooperation with stakeholders and does not create any labor claims. The Research Committee of AUTH reserves the right to select the candidate, and it remains in the Committee's full discretion to conclude or not the relevant contracts, excluding any claim by the candidates.
9. The work contract awarded shall comply with the general and specific guidelines of the funding mechanism.
10. For candidates, language knowledge 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'). For foreign candidates, there shall be equivalent language skills verification. All foreign language qualifications must be accompanied by an official translation into Greek except for the English, French, German, Italian and Spanish language qualifications which are accepted without the need for their translation (Law 4674/2020, Article 58, Government Gazette 53 / 11.3.2020, τ.Α').
11. For candidates, computer skills shall be certified according to the Article 27 par.6 of Presidential Decree 50/2001 "Defining qualifications for the appointments of posts in the public sector" (Official Gazette 39/5.3.2001/Issue A', 24/30.01.2013 /Issue A' and 63/9.3.2005/Issue A').
12. Foreign documents must be accompanied by photocopies of their official translation into the Greek language.
13. It should be noted that the work assignment to candidates employed in the Public Sector, in Public and Private Bodies, etc. is subject to the provisions of paragraph 14 of Article 12 of YAKED 110427/EYTHY1020/01.11.2016

The President of the Research Committee

Efstratios A. Stylianidis
Vice Rector Research and Lifelong Learning AUTH

SUBMISSION OF PROPOSAL - STATEMENT*
(with consequences of law on false/inaccurate statement)

Last Name : First Name:

Degree (or Diploma:)Final Degree (numerically, approach 2 decimal):

Year of Birth: Place of Birth: Prefecture:

Father's Name and surname:

Mother's Name and surname::

Address of residence: Street Number..... Post code CityTelephone.:

Address of work: Street Number..... Post code CityTelephone.:.....

Mobile phone : e-mail:Passport Number:.....

**Please note in this proposal - statement and outside of the postal file the following
(To be completed by the candidate):**

1. The protocol number of this call

2. The code of project object you would like to participate (A,B,C etc)

I affirm that the information given in
this proposal - statement is precise and true

SIGNATURE

Date : ___/___/_____

Find attached : 1.
2.

**Incomplete filling of the proposal – statement constitutes a criterion for exclusion*

ANALYTICAL TABLE DATA PROOF OF EXPERIENCE

(The person concerned records all relevant to the subject of the call experience **if required**)

a/ a	From	To	(a)	(b)	Institution of Employment - Employer	Employer Category ⁽¹⁾	Task of Employment
			Months of Employment	Days of Employment			

TOTAL **GENERAL TOTAL MONTHS OF EXPERIENCE** ⁽²⁾

(1) Complete as appropriate with 'PR' or 'PU' depending on the category of the Employment Office, where PR: Private sector, individuals or private legal entities (corporations, etc.) • PU: Public sector, government agencies or public entities or local authorities of first and second degree or private entities in the public sector of par. 1 of Art. 14 of Law. 2190/1994 as in force or bodies of par. 3 of Art. 1 of Law. 2527/1997. In the case of self-employed, complete with the indication "SE".

(2) Complete the GENERAL TOTAL MONTHS OF EXPERIENCE. When, in Column (b) shows experience, the total days of employment divided by 25 (if the experience has been calculated as the number of wages) or by 30 (if the experience has been calculated as the period from the start day until the expiration date of employment) and the resulting integer is added to the total months of employment of the column (a).