



**TO BE POSTED ON THE INTERNET**

**CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS (CERTH)  
CHEMICAL PROCESS AND ENERGY RESOURCES INSTITUTE (CPERI)**

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Thermi, 3-2-2015  
Protocol No: 3269/3-2-2015

**CALL FOR EXPRESSION OF INTEREST**

(for submission of proposal for contract work under private law)

The **Chemical Process & Energy Resources Institute (CPERI) of Centre for Research and Technology Hellas (CERTH)**, within the framework of the project «**New catalytic processes for the production of second generation biofuels**» - «**THALES**», which is co-financed by the European Union (European Social Fund - ESF) and Greek national funds through the Operational Programme "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF 2007-2013) - Research Funded Project "THALES", announces this Call for Expression of Interest for submission of proposal in order to sign a fixed term services contract under private law, for one (1) position of a fellow, as specifically described below:

**POSITION: 191E**

**Research Postdoctoral Fellow**, in the field of Chemical Engineering or related discipline

**RESEARCH ACTIVITIES:**

Synthesis, characterization and evaluation of catalytic materials for the reactions of steam reforming of bio-oil aqueous fraction, water-gas shift (WGS) for the conversion of CO to CO<sub>2</sub> and production of additional H<sub>2</sub> and selective methanation CO. Design and evaluation



of various types of reactors and design of integrated H<sub>2</sub> production process for PEM type fuel cells

**Deliverables:**

- 4.1 Steam reforming / partial oxidation of the aqueous fraction of bio-oil
- 4.2 Water-gas shift (WGS) reaction for the conversion of CO to CO<sub>2</sub> and production of additional H<sub>2</sub>
- 4.3 Removal of the remaining CO by selective methanation, at levels compatible with PEM fuel cells
- 4.4 Synthesis and characterization of catalytic materials for the above three reactions / processes
- 4.5 Design and evaluation of different types of reactors
- 4.6 Design of an integrated process for the production of H<sub>2</sub> suitable for feeding PEM fuel cells
- 5.3 Publicity-dissemination of results

**Term of Contract:** 7 months from the signing of the contract. In case of extension of the project the contract may be extended up to the new expiration date with no additional payment.

**Total Amount (for the period of 7 months):** 15.050,00 Euros (including VAT).

**Place of Services:** Patras, Greece (University of Patras)

**REQUIRED QUALIFICATIONS:**

1. University degree in Chemical Engineering or related discipline
2. Doctoral degree in a field relevant to that of the project objectives

**ADDITIONAL QUALIFICATIONS TO BE CONSIDERED:**

1. Good knowledge of English language
2. Proven experience in research projects, relevant to the project fields
3. Publications in scientific peer-reviewed journals in topics related to the project fields
4. Announcements in scientific conferences related to the project fields



## GRADING OF QUALIFICATIONS - CRITERIA

A/A	QUALIFICATION - CRITERION	SCORE UNITS
1	Degree grade (score at 10th-grade scale)	Grade x 100
2	Doctoral degree in a field relevant to that of the project objectives	400
3	Good knowledge of English language (B2)	30
4	Proven experience in research projects, relevant to the project fields (up to 60 months)	7/month
5	Publications in scientific peer-reviewed journals in topics related to the project fields	40/publication
6	Announcements in scientific conference related to the project fields	30/announcement

**Only those required or additional qualifications that are listed in this call and are closely related to the project are graded.**

Qualified candidates or those considered most suitable may be called for an interview in case additional data for their evaluation are required.

### REQUIRED DOCUMENTS TO BE SUBMITTED

1. Proposal for contract (attached)
2. Detailed Curriculum Vitae (CV)
3. Copies of University degrees or diplomas, certifications and certificates of prior experience or employment, as well as and any other document that substantiates the required qualifications and those listed in the CV.

Qualifications listed either in the proposal or in the CV, which are not substantiated by the submission of the relevant documents shall not be considered and shall not be graded for the final ranking of candidates.

Male applicants must have fulfilled their military obligations or legally be exempted from them throughout the contract term (if applicable).

Proposals will be assessed only if they are submitted or sent in a sealed envelope and received by CERTH/CPERI, under the responsibility of the applicant, by ..... **2015** at 14:00 hours, at the latest, in the following address:

CERTH / Chemical Process & Energy Resources Institute (CPERI)  
6<sup>th</sup> klm Charilaou-Thermi Road  
570 01 Thermi - Thessaloniki, Greece



Proposals submitted after the above date and time will be rejected as belated and they will not be assessed.

Each proposal shall be clearly marked on the outside of the envelope with the following:

**Proposal for the call for expression of interest with protocol No. 3269 /3.2.2015.**

**For the project** «New catalytic processes for the production of second generation biofuels» - «THALES»

**The candidate's identification** (name, address, phone number).

Candidates, who wish object against the evaluation results (Minutes of the Evaluation Committee), are entitled to file an objection with the Chemical Process & Energy Resources Institute (CPERI) of CERTH within five (5) calendar days from the posting of the Minutes. The Minutes shall be posted in the program "DIAYGEIA" and the website of CERTH ([www.certh.gr](http://www.certh.gr)).

The objection can be either submitted in person or sent by registered mail or courier directly to CERTH / Chemical Process & Energy Resources Institute (CPERI), 6<sup>th</sup> klm Charilaou-Thermi Road, 57001 Thermi - Thessaloniki, Greece) and must be received by CERTH / CPERI, under the responsibility of the objecting candidate, within the period of 5 days.

The envelope of the objection must be clearly marked on the outside with the following:

**Objection for the call for expression of interest with protocol No. 3269 / 3.2.2015.**

**For the project** «New catalytic processes for the production of second generation biofuels» - «THALES»

**The candidate's identity** (name, address, phone number).

Any objections submitted or received after this deadline will be rejected as belated and they will not be assessed.

Candidates have the right to access their documents as well as at those of other candidates upon a written request and subject to the conditions of Article 5 of Law 2690/1999 (ΦΕΚ Α' 45/9.3.1999). Access rights to the evaluation records of other candidates, can be exercised in favor of the applicant, subject to the compliance with the requirements in items Γ/ΕΞ/4163-1/06.07.2012 document of the Hellenic Data Protection Authority, namely when he/she has a legitimate interest to defend his/her rights before the competent courts.

## **EVALUATION OF PROPOSALS – OTHER TERMS AND CONDITIONS**

**1.** From the proposals that are submitted by the deadline set and according to the aforementioned terms and conditions, the one deemed most appropriate is selected and a



contract is concluded with the selected candidate, based on the principle of contractual freedom.

**2.** Those proposals received within the prescribed period are considered valid. In case of registered mail delivery or courier service, CERTH shall not be liable for the time of delivery and the content of the file of the proposal sent.

**3.** Replacement of the proposal, correction or completion of any missing document is allowed only up to the deadline of submission of proposals.

**4.** If the university degrees (undergraduate or postgraduate) that are a prerequisite (of this call) have been awarded from a foreign university or institution, they must be accompanied by a certificate of recognition issued by the Hellenic National Academic Recognition and Information Center (DOATAP – Hellenic NARIC).

**5.** It should be pointed that the process of the present call for proposals for conclusion of a contract under private law do not constitute a tendering procedure, while, in case of selection of candidate/counterparty, it qualifies as acceptance of a proposal for conclusion of contract rather than hiring (of the candidate/counterparty). The process of the present call of interest will be concluded by drawing a rank order list and all the selected candidates will be informed individually.

**6.** A submitted proposal that does not fulfill the requested qualifications in the call of interest is not assessed and therefore is rejected.

**7.** The award of contract shall be made in accordance with the provisions in the Project Implementation manual.

**8.** During implementation of the project and in case a candidate needs to be replaced, he/she will be replaced by another candidate in the framework of this call and in accordance with the rank order list.

**9.** If, for any reason, the project funding is discontinued, CERTH reserves the right to terminate the contract signed, without penalty, after a written notice of termination.

**10.** CERTH assumes no obligation to conclude a contract, given that it is in its complete discretion to conclude a contract or not, as well as the number of them, excluding any rights of the candidates for any claims.

**11.** Certification of language knowledge is pursuant by Article 1 P.D. 146/2007 "Modifying provisions of P.D. 50/2001 Determining qualification for appointment to public sector entities as in force"(FEK 185 / 3.8.2007 / τ.Α'), in combination with the last sentence of paragraph 1 of Article 1 P.D. 116/2006 "Amendment of Article 28 of Presidential Decree 50/2001 "(FEK 115 / 9.6.2006 / τ.Α').

**12.** It should be noted that if the selected candidates are public servants, it is their personal responsibility to comply with the requirements of Article 31 of Law 3528/2007.



Interested candidates may receive more information by phone at +30 2310 498112 or by email: [thomais@cperi.certh.gr](mailto:thomais@cperi.certh.gr) (Mrs. Thomais Achila)

On behalf of CERTH/CPERI

E. Kakaras

Institute Director



**European Union**  
European Social Fund



MINISTRY OF EDUCATION & RELIGIOUS AFFAIRS, CULTURE & SPORTS  
MANAGING AUTHORITY

**Co-financed by Greece and the European Union**



**WORK CONTRACT PROPOSAL APPLICATION - STATEMENT**  
(subject to all legal consequences for false statements)

Surname: ..... Name: .....

Degree (or Diploma): .....

Grade Point Average [in the scale 1-10] (precision of two decimal digits): .....

Birth Date: ..... Place of Birth: ..... County/Prefecture: .....

Father's name and surname: .....

Mother's name and surname: .....

Home address: Street: ..... No: ..... Zip Code.: ..... City: .....

Phone.: .....

Work address: Street: ..... No: ..... Zip Code.: ..... City: .....

Phone.: .....

Mobile Phone: ..... e-mail: ..... T.I.N.....

**The followings should be recorded on the envelope:**

1. Reference number of the Call for Expression of Interest: .... / .....
2. The project "Centaurus – System software support for future, heterogeneous, accelerator-based systems"
3. The candidate's identity (name, address, telephone number)

I solemnly declare that the information provided in all the supporting documents enclosed is exact and true.

**SIGNATURE**

Date: \_\_/\_\_/\_\_\_\_

- Enclosed:
- 1.
  - 2.
  - 3.



**DETAILED TABLE - PROOF OF EXPERIENCE**

(The previous experience relevant to the specific call **if required** is recorded by the candidate)

N/A	FROM (mo-yr)	TO (mo-yr)	Months of employment	Previous Employer (Organization, Company, etc)	Position - Tasks

**TOTAL MONTHS OF EXPERIENCE .....**

	 <p>OPERATIONAL PROGRAMME EDUCATION AND LIFELONG LEARNING <i>investing in knowledge society</i></p>	 <p>NSRF 2007-2013 programme for development</p>
<p>European Union European Social Fund</p>	<p>MINISTRY OF EDUCATION &amp; RELIGIOUS AFFAIRS, CULTURE &amp; SPORTS MANAGING AUTHORITY</p>	<p>EUROPEAN SOCIAL FUND</p>
<p><b>Co-financed by Greece and the European Union</b></p>		