INTERNATIONAL COMMISSION FOR THE
CONSERVATION OF ATLANTIC TUNAS

COMMISSION INTERNATIONALE POUR LA
CONSERVATION DES THONIDES DE L'ATLANTIQUE

ICCAT CICTA CICAA

COMISIÓN INTERNACIONAL PARA LA
CONSERVACIÓN DEL ATÚN ATLÁNTICO

Madrid, 11 January 2019

ICCAT CIRCULAR # 0195 / 2019

SUBJECT: CALLS FOR TENDER – TERMS OF REFERENCE – SENIOR BACK-END SOFTWARE DEVELOPER AND SENIOR FRONT-END SOFTWARE DEVELOPER

I should like to transmit to you the attached Terms of Reference for two Calls for tender for a Senior Back-end Software Developer and a Senior Front-end Software Developer.

I would be grateful if you could distribute this call for tenders to qualified individuals and companies that might be interested.

Please accept the assurances of my highest consideration.

Executive Secretary

Camille Jean Pierre Manel

DISTRIBUTION:

– **Commission Officers:**

Commission Chair:	R. Delgado	COC Chair:	D. Campbell
First Vice Chair:	S. Depypere	PWG Chair:	N. Ansell
Second Vice Chair:	Z. Driouich	STACFAD Chair:	H.A Elekon
SCRS Chair:	G. Melvin	SCRS Vice Chair	R. Coelho

– **Head Delegates / Head Scientists**

– **Cooperating Parties, Entities, or Fishing Entities**

Attachment: 2 Calls for tender.

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TERMS OF REFERENCE: SENIOR BACK-END SOFTWARE DEVELOPER

The International Commission for the Conservation of Atlantic Tunas (ICCAT), an intergovernmental organization, seeks a Senior Software Developer with expertise in back-end web application development. ICCAT is based in Madrid, Spain, and is concerned with the monitoring, assessment, management and conservation of tuna and tuna-like stocks in the Atlantic Ocean and adjacent seas. For general information about ICCAT click here.

Background

The ICCAT Secretariat is responsible for managing a large amount of information reported by the ICCAT Contracting Parties and Cooperating Non-Contracting Parties, Entities or Fishing Entities (CPCs). This information is stored, validated, analyzed and properly disseminated, with the purpose of serving as a resource to accomplish the mandate of the Commission. In recent years, there has been a continuous increase in the amount of information and data processing work. In order to allow the Secretariat to support the increasing demands, it is essential to develop a software tool that can manage this vast and heterogeneous amount of data. This tool will be a modularized web application developed with open source technologies.

Mission

The ICCAT Secretariat seeks a back-end software developer with an in-depth understanding of object-oriented programming and be proficient developing REST services. The candidate will be working in collaboration with a small team to develop a multimodule web application to allow CPCs to report their data, store the data sent, analyze the data and distribute them properly. The first stage of this project will require a full-time developer for one year with the possibility of extension. The intended start date is February 2019, subject to funds becoming available.

Required Skills & Experience

-   5+ years of experience with Java language (latest's versions).
-   5+ years of experience with Spring framework, Spring Security and JPA.
-   3+ years of experience developing REST webservices.
-   3+ years of experience with MySQL / MariaDB.
-   Writing tested oriented, idiomatic, and documented code.
-   Cooperating with the front-end developer in the process of building the front-end.
-   University degree in Computer Science (or equivalent).
-   Git experience (GitHub and/or GitLab)
-   Excellent level of one of the three official languages of ICCAT (English, French or Spanish), and, a good level in a second ICCAT official language.
-   Good written communication skills.

Desired Skills & Experience

-   Good oral communication skills and an ability to be a team player.
-   Communicating with external web services.
-   Experience with HATEOAS.
-   Experience with web technologies such as Node.js, Java, PHP.
-   Experience in containerized workloads (Docker, LXD, etc.)
-   Experience with designing for massively scalable and distributed systems.

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Deliverables

Given the nature of the and Integrated Online Management System (IOMS) project (open source), this item is covered by having available in real time (versioning control) and publicly (GitLab repositories) the following:

- All the source code (database models, backend, and, frontend).
- The documentation on the technical specifications for implementing each IOMS module.
- General purpose documents (user manuals, specific articles on deployment and others).

Overall, all the outcomes of the ICCAT Integrated Online Management System can be adopted, and **certainly adapted (branched), by any t-RFMO or other potential user**, which aims to develop similar online systems.

Salary & Remuneration

According to current market prices for such services.

Application for a service provider

This call for tenders will be advertised for 3 weeks on the ICCAT website. Candidates should submit by **31 January 2019** (12:00 noon Madrid time) a detailed Curriculum Vitae to the Executive Secretary. The CV should include documented educational background, professional experience, a list of relevant projects/works developed, and letters of recommendation. Candidates should also submit a declaration of engagement stating their commitment to comply with the ToRs, and preferably their availability to work full-time at the ICCAT headquarters in Madrid, or their flexibility to travel to the Madrid headquarters. The Executive Secretary will nominate an Evaluation Panel to assess all the applications, which may involve a personal interview, and to recommend the selected candidate. This process will culminate in the signature of a short term contract between ICCAT and the selected candidate, who is required to undergo a comprehensive medical examination.

Submissions should be exclusively sent to:

Mr. Camille Jean Pierre Manel
ICCAT Executive Secretary (camille.manel@iccat.int)
Calle Corazón de Maria 8, 6th Floor
28002 Madrid
Spain

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TERMS OF REFERENCE: SENIOR FRONT-END SOFTWARE DEVELOPER

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Mission

The ideal candidate for this position should have an in-depth understanding of object-oriented programming and be proficient using at least TypeScript, HTML5, CSS3, Angular 7 (including frameworks such as Material Design and PrimeNG). The candidate will be working in collaboration with a small team to develop a multimodule web application to allow CPCs to report their data, store the data sent, analyze the data and distribute them properly. The first stage of this project will require a full-time software developer for one year with the possibility of extension. The intended start date is February 2019, subject to funds becoming available.

Required Skills & Experience

- 5+ years of experience with JavaScript.
- 3+ years of experience with Typescript.
- 3+ years of experience Angular 2+ and a deep knowledge of this framework.
- HTML5/CSS3 and Material knowledge.
- Writing tested, idiomatic, and documented JavaScript, HTML and CSS.
- Cooperating with the back-end developer in the process of building the RESTful API.
- Deep knowledge of JQUERY, AJAX, JSON, HTML, XML, CSS, REST and associated frameworks.
- University degree in Computer Science (or equivalent).
- Git experience (GitHub and/or GitLab).
- Excellent level of one of the three official languages of ICCAT (English, French or Spanish). and, a good level in a second ICCAT official language.
- Good written communication skills.

Desired Skills & Experience

- Good oral communication skills and an ability to be a team player.
- Communicating with external web services.
- Experience with other JS frameworks.
- Experience with such web technologies as Node.js, Java, PHP.

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