



Request for Proposals (RFP)

**For the provision of specialist engineering services
to CSIR Aeronautics**

RFP No. 3479/09/09/2021

Date of Issue	Thursday, 26 August 2021	
Closing Date	Thursday, 09 September 2021 at 16h30	
Place of tender submission	tender@csir.co.za	
Enquiries	Strategic Procurement Unit	E-mail: tender@csir.co.za
CSIR business hours	08h00 – 16h30	
Category	Engineering	

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SECTION A – TECHNICAL INFORMATION

1 INTRODUCTION

The Council for Scientific and Industrial Research (CSIR) is one of the leading scientific research and technology development organisations in Africa. In partnership with national and international research and technology institutions, CSIR undertakes directed and multidisciplinary research and technology innovation that contributes to the improvement of the quality of life of South Africans. The CSIR's main site is in Pretoria while it is represented in other provinces of South Africa through regional offices.

2 BACKGROUND

The Defence and Security Cluster of the CSIR performs Defence related R&D in the fields of defence test and evaluation, development of specialist test and evaluation equipment, stores integration and airborne systems development amongst several other areas. The Aeronautics Systems Impact Area within the Defence & Security Cluster has a track record in aerodynamic test & evaluation (T&E) and various aerospace related technology demonstrators. The Aeronautics Systems Impact Area is seeking experienced engineering expertise to develop custom engineering test and evaluation equipment.

3 INVITATION FOR PROPOSAL

Proposals are hereby invited from suitably qualified service providers for supplying specialist engineering expertise for the development of specialist test and evaluation equipment.

4 PROPOSAL SPECIFICATION

The Aeronautics Systems Impact Area is in need of experience with:

- Design, analysis and development of custom mechatronic systems for aerodynamic T&E and other mechatronic applications
- System commissioning test and evaluation

This experience is needed to support the development of custom test and evaluation equipment for wind tunnels and other engineering applications pertinent to the Impact Area.

The proposal submission must include supporting documentation highlighting the criteria stipulated in section 5. The proposal should include an hourly labour rate for the above-mentioned services.

Depending on the nature of the task, the selected suppliers may be required to sign an NDA with the CSIR, and depending on the security status of the projects, might be asked to submit a security clearance.

5 FUNCTIONAL EVALUATION CRITERIA

5.1 The evaluation of the proposal will be based on the following criteria:

	Functional Evaluation Criteria	Weight	Score	Result
Suitable qualifications and professional accreditation	<ul style="list-style-type: none"> • MSc/PhD in a relevant Engineering discipline (Mechanical/Aeronautical/Mechatronics or related) and Professional Engineering Registration with ECSA = 100% • BSc with Professional Engineering Registration with ECSA = 70% • Incorrect/insufficient qualification and professional accreditation = 0% 	20%	Out of 100	20
Years of relevant experience in an aerodynamic T&E environment (wind tunnels)	<ul style="list-style-type: none"> • More than 10 years aerodynamic T&E experience = 100% • More than 5 years aerodynamic T&E experience = 70% • Less than 5 years aerodynamic T&E experience = 0% 	20%	Out of 100	20
Engineering capability in performing complex mechanical/mechatronic engineering	Demonstrable experience with all of the following tool sets: (1) Computer Aided Design, (2) Finite Element Analysis, (3) Computational Fluid Dynamics, (4) Matlab Simulink (Kinematic/Dynamic Solvers)	20%	Out of 100	20

design, analysis and optimisation	<ul style="list-style-type: none"> • Relevant capability in the above engineering tools = 100% • Capability in some or none of the above = 0% 			
Track record of having designed, delivered and integrated specialist/complex T&E equipment for wind tunnels and mechatronic equipment for other applications	<ul style="list-style-type: none"> • Experience and involvement with 3 or more demonstrated working mechatronic systems for wind tunnel rigs/equipment and other mechatronic applications, including integration with control and data acquisition = 100% • Experience and involvement with fewer than 3 mechatronic systems for wind tunnel rigs/equipment and other mechatronic applications, including integration with control and data acquisition = 0% 	20%	Out of 100	20
Experience in the design and optimisation of a Flow Field Probe Support System	<ul style="list-style-type: none"> • Relevant experience including requirements analysis, concept design, design analysis, optimisation and costing = 100% • No experience = 0% 	20%	Out of 100	20
Totals		100%		100

5.2 Proposals with functionality / technical points of less than the pre-determined minimum overall percentage of 70 % will be eliminated from further evaluation.

6 ELIMINATION CRITERIA

Proposals will be eliminated under the following conditions:

- Submission after the deadline;
- Proposals submitted at incorrect location;
- Suppliers listed on National Treasury list of restricted suppliers

7 NATIONAL TREASURY CENTRAL SUPPLIER DATABASE REGISTRATION

Before any negotiations will start with the winning bidder, the bidder will be required to:

- be registered on National Treasury's Central Supplier Database (CSD). Registrations can be completed online at: www.csd.gov.za;
- provide the CSIR of their CSD registration number; and
- provide the CSIR with a certified copy of their B-BBEE certificate (SANAS approved or Affidavit on Dti template). If no certificate can be provided, no points will be scored during the evaluation process. (RSA suppliers only)

SECTION B – TERMS AND CONDITIONS

8 VENUE FOR PROPOSAL SUBMISSION

All proposals must be submitted at: tender@csir.co.za

If mail size exceeds 25MB, then multiple mails must be sent.

No documents on cloud platforms will be accepted

9 TENDER PROGRAMME

The tender program, as currently envisaged, incorporates the following key dates:

- | | |
|--------------------------------------|-------------------|
| • Issue of tender documents: | 26 August 2021 |
| • Closing Date: | 09 September 2021 |
| • Estimated tender validity duration | 4 years |

10 SUBMISSION OF PROPOSALS

10.1 All proposals are to be clearly marked with the RFP number. Proposals must consist of two parts:

PART 1: Technical Proposal: RFP No: 3479/09/09/2021

PART 2: Pricing Proposal, B-BBEE and other Mandatory Documentation: RFP No: 3479/09/09/2021

10.2 Proposals submitted by companies must be signed by a person or persons duly authorised.

10.3 The CSIR will award the supplier status to qualified tenderer(s)' whose proposal is determined to be the most advantageous to the CSIR, taking into consideration the technical (functional) solution, price and B-BBEE.

11 DEADLINE FOR SUBMISSION

Proposals shall be submitted at the address mentioned above no later than the closing date of **09 September 2021** during CSIR's business hours. The CSIR business hours are between 08h00 and 16h30.

Where a proposal is not received by the CSIR by the due date and stipulated place, it will be regarded as a late tender. Late tenders will not be considered.

12 AWARDING OF TENDERS

12.1 Awarding of tenders will be published on the National Treasury e-tender portal or the CSIR's tender website. No regret letters will be sent out.

13 EVALUATION PROCESS

13.1 Evaluation of proposals

All proposals will be evaluated by an evaluation team for functionality, price and B-BBEE. Based on the results of the evaluation process and upon successful negotiations, the CSIR will approve the awarding of the contract to successful tenderers.

A two-phase evaluation process will be followed.

- The first phase includes evaluation of **elimination** and **functionality criteria**.
- The second phase includes the evaluation of **price** and **B-BBEE** status.

Pricing Proposals will only be considered after functionality phase has been adjudicated and accepted. Only proposals that achieved the specified minimum qualification scores for functionality will be evaluated further using the preference points system.

13.2 Preference points system

The 80/20 preference point system will be used where 80 points will be dedicated to price and 20 points to B-BBEE status.

14 PRICING PROPOSAL

- 14.1 The supplier shall indicate a **price per hour** (hourly rate) for hours required for the services purchased by the CSIR.
- 14.2 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 14.3 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable.
- 14.4 Only firm prices* will be accepted during the tender validity period. Non-firm prices** (including prices subject to rates of exchange variations) will not be considered.

**Firm price is the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax which, in terms of a law or regulation is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;*

***Non-firm price is all prices other than "firm" prices.*

- 14.5 Payment will be according to the CSIR Payment Terms and Conditions.

15 VALIDITY PERIOD OF PROPOSAL

Each **proposal** shall be valid for a minimum period of three (3) months calculated from the closing date.

Each **hourly rate proposal** shall be valid for a minimum period of one (1) year calculated from the closing date, after which escalation to the hourly rate will be negotiated for the subsequent year.

16 APPOINTMENT OF SERVICE PROVIDER

- 16.1 The service provider status will be awarded to the tenderer who scores the highest total number of points during the evaluation process, except where the law permits otherwise.
- 16.2 Appointment as a successful service provider shall be subject to the parties agreeing to mutually acceptable contractual terms and conditions. In the event of the parties

failing to reach such agreement CSIR reserves the right to appoint an alternative supplier.

- 16.3 Awarding of contracts will be announced on the National Treasury website and no regret letters will be sent to unsuccessful bidders.

17 ENQUIRIES AND CONTACT WITH THE CSIR

Any enquiry regarding this RFP shall be submitted in writing to CSIR at tender@csir.co.za with "**RFP No 3479/09/09/2021 - The provision of specialist engineering services to the CSIR Aeronautics**" as the subject.

Any other contact with CSIR personnel involved in this tender is not permitted during the RFP process other than as required through existing service arrangements or as requested by the CSIR as part of the RFP process.

18 MEDIUM OF COMMUNICATION

All documentation submitted in response to this RFP must be in English.

19 COST OF PROPOSAL

Tenderers are expected to fully acquaint themselves with the conditions, requirements and specifications of this RFP before submitting proposals. Each tenderer assumes all risks for resource commitment and expenses, direct or indirect, of proposal preparation and participation throughout the RFP process. The CSIR is not responsible directly or indirectly for any costs incurred by tenderers.

20 CORRECTNESS OF RESPONSES

- 20.1 The tenderer must confirm satisfaction regarding the correctness and validity of their proposal and that all prices and rates quoted cover all the work/items specified in the RFP. The prices and rates quoted must cover all obligations under any resulting contract.
- 20.2 The tenderer accepts that any mistakes regarding prices and calculations will be at their own risk.

21 VERIFICATION OF DOCUMENTS

- 21.1 Tenderers should check the numbers of the pages to satisfy themselves that none are missing or duplicated. No liability will be accepted by the CSIR in regard to anything arising from the fact that pages are missing or duplicated.
- 21.2 *Electronic copy* of each proposal must be submitted.
- 21.3 Pricing schedule and B-BBEE credentials should be submitted with the proposal, but as a separate document and no such information should be available in the technical proposal.

22 SUB-CONTRACTING

- 22.1 A tenderer will not be awarded points for B-BBEE status level if it is indicated in the tender documents that such a tenderer intends sub-contracting more than **25%** of the value of the contract to any other enterprise that does not qualify for at least the points that such a tenderer qualifies for, unless the intended sub-contractor is an exempted micro enterprise that has the capability and ability to execute the sub-contract.
- 22.2 A tenderer awarded a contract may not sub-contract more than **25%** of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an exempted micro enterprise that has the capability and ability to execute the sub-contract.

23 ENGAGEMENT OF CONSULTANTS

The consultants will only be remunerated at the rates:

- 23.1 Determined in the "Guideline for fees", issued by the South African Institute of Chartered Accountants (SAICA); or
- 23.2 Set out in the "Guide on Hourly Fee Rates for Consultants", by the Department of Public Service and Administration (DPSA); or
- 23.3 Prescribed by the body - regulating the profession of the consultant.

24 TRAVEL EXPENSES

- 24.1 All travel expenses for the CSIR's account, be it directly via the CSIR's travel agent or indirectly via re-imburements, must be in line with the CSIR's travel policy. The following will apply:
- 24.1.1 Only economy class tickets will be used.

24.1.2 A maximum of R1400 per night for accommodation, dinner, breakfast and parking will be allowed.

24.1.3 No car rentals of more than a Group B will be accommodated.

25 ADDITIONAL TERMS AND CONDITIONS

25.1 A tenderer shall not assume that information and/or documents supplied to CSIR, at any time prior to this request, are still available to CSIR, and shall consequently not make any reference to such information document in its response to this request.

25.2 Copies of any affiliations, memberships and/or accreditations that support your submission must be included in the tender.

25.3 In case of proposal from a joint venture, the following must be submitted together with the proposal:

- Joint venture Agreement including split of work signed by both parties;
- The original or certified copy of the B-BBEE certificate of the joint venture;
- The Tax Clearance Certificate of each joint venture member;
- Proof of ownership/shareholder certificates/copies; and
- Company registration certificates.

25.4 An omission to disclose material information, a factual inaccuracy, and/or a misrepresentation of fact may result in the disqualification of a tender, or cancellation of any subsequent contract.

25.5 Failure to comply with any of the terms and conditions as set out in this document will invalidate the Proposal.

26 CSIR RESERVES THE RIGHT TO

26.1 Extend the closing date;

26.2 Verify any information contained in a proposal;

26.3 Request documentary proof regarding any tendering issue;

26.4 Give preference to locally manufactured goods;

26.5 Appoint one or more service providers, separately or jointly (whether or not they submitted a joint proposal);

26.6 Award this RFP as a whole or in part;

26.7 Cancel or withdraw this RFP as a whole or in part.

27 DISCLAIMER

This RFP is a request for proposals only and not an offer document. Answers to this RFP must not be construed as acceptance of an offer or imply the existence of a contract between the parties. By submission of its proposal, tenderers shall be deemed to have satisfied themselves with and to have accepted all Terms & Conditions of this RFP. The CSIR makes no representation, warranty, assurance, guarantee or endorsements to tenderer concerning the RFP, whether with regard to its accuracy, completeness or otherwise and the CSIR shall have no liability towards the tenderer or any other party in connection therewith.

DECLARATION BY TENDERER

RFP No: 3479/09/09/2021

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / proposal specifications stipulated in RFP No.3479/09/09/2021 at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the CSIR during the validity period indicated and calculated from the closing date of the proposal.

I confirm that I am satisfied with regards to the correctness and validity of my proposal; that the price(s) and rate(s) quoted cover all the services specified in the proposal documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this proposal as the principal liable for the due fulfilment of this proposal.

I declare that I have no participation in any collusive practices with any tenderer or any other person regarding this or any other proposal.

I accept that the CSIR may take appropriate actions, deemed necessary, should there be a conflict of interest or if this declaration proves to be false.

I confirm that I am duly authorised to sign this proposal.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
2
DATE:	