



Call for Proposals for the Collaborative Programme in Additive Manufacturing to support the development of the additive manufacturing industry

CFP No. CFP 001-03-07-2026

Date of issue	Friday, 03 July 2026
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CFP submissions	bnkitseng@csir.co.za (If submission exceeds 25MB, multiple emails can be sent)
CSIR business hours	08:00–16:30
Category	Additive manufacturing
Closing date and time	2026/27 FY: Friday, 28 August 2026

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1 INTRODUCTION

The Collaborative Programme for Additive Manufacturing (CPAM) is a directed implementation programme to support the South African Additive Manufacturing Strategy. CPAM has the objective of reducing the barriers to the adoption of additive manufacturing (AM) as an acceptable manufacturing technology and focuses on supporting and developing an AM-based small, medium and micro enterprise (SMME) industry.

The purpose of this Call for Proposals (CFP) is to enable new suppliers/SMMEs to enter the supply chain and develop AM technologies and industries to enable market entry and global competitiveness through access to technology. This document outlines the framework and submission procedures for the CFP in the CPAM: SMME Development and Support priority area. It is a guide for applicants submitting proposals for review by the CPAM technical review committee.

2 BACKGROUND

The CPAM, an initiative of the Department of Science, Technology and Innovation, is hosted and managed by the Council for Scientific and Industrial Research (CSIR), with a primary focus on industrial development. CPAM is a government-funded mechanism to support the South African Additive Manufacturing Strategy. The initiative provides strategic direction for enabling capacity development in the following areas:

- Design, optimisation and preprocessing of data;
- Process development, monitoring and control;
- Post-processing;
- Testing and analysis;
- Dimensional verification and reverse engineering; and
- Simulation and modelling.

The role of CPAM in advancing the knowledge base in South Africa, aligned with the AM strategy, is to:

- Establish local design competency for AM-produced parts;

- Establish local competence to produce industrial parts in polymer materials using AM;
- Establish local competence to produce functional metal parts using AM;
- Establish support initiatives for industry development and public awareness;
- Ensure that AM technologies are adopted by industry through an active process of industrialisation; and
- Enable new suppliers to enter the supply chain and develop AM technologies, industries and SMMEs to enable market entry and global competitiveness through access to technology.

Prospective beneficiaries are invited to submit proposals for feasibility studies, prototyping and product development (printing) to enable market entry for AM products.

Please note that proposals involving capital investment will not be eligible for consideration.

3 THEMATIC AREAS

The thematic areas selected for this CFP are at the discretion of CPAM and are considered the most relevant for technology advancement in South African AM. The scope of work will, among others, cover the following:

- Assistance for the design of AM services:
 - Generation of computer-aided design (CAD) for the proposed component or part. Optimising an existing design for 3D-printing purposes. This can include applying design optimisation algorithms, as well as finite element analysis and optimisation routines if required for the functionality of the proposed component; and
 - Generation of appropriate 3D-printing files compatible with the 3D-printing technology selected for the component.
- For 3D-printing services:
 - Preparation of the printing files required to produce the part or component on a 3D-printing machine;
 - Supply of parts feedstock;
 - Production of parts;
 - Quality checks of parts; and

- Post-processing of parts, including arrangement for removing support structures, surface machining, heat treatment or any other post-processing required as part of the part production.

Only projects with a Technology Readiness Level/Manufacturing Readiness Level value greater than or equal to three at the start of the project will be considered for support. **This implies that the projects should be in the prototype development stage.**

4 INVITATION FOR PROPOSAL

CPAM recognises the need to support the local industry; therefore, a CFP is issued to attract entry-level SMMEs that contribute towards the development of the South African AM industry.

4.1 PROPOSAL SPECIFICATION

All proposals must be submitted in the format specified in the CFP document (a template is provided).

4.2 PRICING PROPOSAL

The total project budget requested for the CPAM industrial support proposal may not exceed the amount specified below:

- Project budget \leq R100 000.00 (excluding VAT).
- Any project proposals received with requested budget amounts greater than the above value will be disqualified.

4.3 The support is limited to services required for AM-produced prototypes and products only.

4.4 Price should not include additional cost elements such as travel cost, freight, insurance, duty, where applicable and so forth.

4.5 Payment will be made to successful applicants identified by the CPAM industry support technical team in accordance with the [CSIR Payment Terms and Conditions](#).

5 PROJECT TIMELINES

All proposed projects must have a maximum duration of six months; however, projects may also be completed earlier. All project deliverables must be completed within the specified timeframes.

6 THE EVALUATION PROCESS

The evaluation process for the CFP will follow a two-phase approach. The phases are:

1. Evaluation of qualification, critical and differentiation factors (functionality); and
2. Evaluation of transformation-related factors.

Evaluation of qualification and differentiation factors (functionality)

- All proposals will initially be reviewed to ensure that they meet the criteria for qualification and critical evaluation. If not, the project proposal will be disqualified.
- All project proposals that fulfil the qualification and critical evaluation factors will then be distributed to the members of a predetermined technical review committee.
- A technical review exercise will be performed to obtain a final score using pre-approved differentiation evaluation factors.
- All projects that have a weighted score greater than or equal to 65% on the differentiation factors (functionality) will qualify for the next round of evaluation on transformation-related factors.

Evaluation of transformation-related factors

Based on the evaluation in Phase One, all proposals with a weighted differentiation or functionality score greater than or equal to 65% qualify for this phase of evaluation. The principle at this stage of evaluation is that all such projects have proven to be suitable for CPAM industrial support and this stage will rank them based on the transformation-related characteristics of the applying organisations without re-evaluating the functionality scores.

- The qualifying projects from the first phase of evaluation will be scored and the total weighted scores will be ranked from highest to lowest performance in terms of the transformation factors.
- Depending on the available budget, the top-performing applications in terms of the transformation factors will be awarded support first until the available budget is

exhausted.

- If sufficient budget is available, all applications that make it to this stage will be awarded CPAM industrial support, but if not, only the top performers will be supported until the budget is exhausted.
- Successful applicants will be notified of the outcome and contacted for the contracting and implementation process.

7 FUNCTIONAL EVALUATION CRITERIA

7.1 EVALUATION OF PROPOSALS

All proposals will be evaluated by a technical review committee for functionality and transformation-related factors. Based on the results of the evaluation process, the CSIR will award the contract to the successful beneficiaries.

7.1.1 Qualification and critical evaluation factors to assess project proposals

The assessment criteria for evaluating all applications are first divided into qualification evaluation factors (based on the beneficiary) and critical evaluation factors (based on the submission). These are shown in Table 1. For the qualification and critical factors, any 'NO' answer immediately disqualifies the application. **The review committee conduct this evaluation.**

Table 1: Qualification and critical evaluation factors to evaluate project proposals

Qualification evaluation factors	Yes	No
South African registered company		
Valid Tax Clearance Certificate		
Valid Broad-Based Black Economic Empowerment (B-BBEE) certificate		
Registration on the National Treasury Central Supplier Database (CSD)		

Critical evaluation factors	Yes	No
Does the company have limited expertise in metal and/or polymer AM?		
Is the project within the thematic area of the CPAM industrial support project?		
Is the costing for the project correct? (i.e., do all line items add up correctly)?		
Does the project fall within the predetermined budget category?		
Is the project AM-related?		
Is the application complete?		
Has the CFP Terms of Reference been submitted (initialled on each page)?		
Is the applicant is NOT on the National Treasury list of restricted (blacklisted) suppliers.		

7.1.2 Differentiation evaluation factors

The differentiation factors for the evaluation of all project applications are shown in Table 2. Each differentiation factor is assigned a score, which is then weighted according to the importance of that factor. Please note:

- A minimum total weighted score of **65** must be achieved.

Table 2: Differentiation evaluation factors for assessing beneficiary applications

Factor	Scoring	Weight %	Weighted score
SMME or non-SMME	<p>A manufacturing SMME is defined according to the Revised Schedule 1 of the National Definition of Small Enterprise in South Africa, published on 15 March 2019 by the Department of Small Business Development. According to this schedule, a manufacturing SMME is defined as having less than 250 full-time employees and an annual turnover of less than R170 million.</p> <ul style="list-style-type: none"> • The company is an SMME (assigned a score of 10) • Company is not an SMME (assigned a score of 5) 	10	

B-BBEE Level	Please attach the B-BBEE certificate to the application: B-BBEE Level 1–2 (assigned a score of 10) B-BBEE Level 3–4 (assigned a score of 8) B-BBEE Level >4 (assigned a score of 5) B-BBEE Level non-compliant – disqualified	10	
Localisation: The proposed project has the potential to increase local market content	The proposed project intends to increase the contribution of SMMEs, increase market access opportunities and exports of goods, contribute to the development of skills and employment, improve local industry competitiveness, ensure technologies are adopted by industry, enable new suppliers to enter the supply chain and develop new technologies. <ul style="list-style-type: none"> • Specifically addresses localisation for AM (assigned score: 20) • Has significant potential to increase local market content, as it addresses a need in the market (assigned score: 20) • Has limited potential to increase local market content, as it addresses a need in the market (assigned score: 10) • Will not increase the local AM market, as it does not address a market need (assigned score: 0) 	50	
Quality and ¹ feasibility	Quality and overall direction of the proposal. <ul style="list-style-type: none"> • The proposal successfully addresses all applicable aspects, with no limitations (assigned score: 30) • The proposal addresses the criterion thoroughly, but with a small number of limitations (assigned score: 20) • The proposal broadly addresses the criterion, but there are significant weaknesses (assigned score: 10) • The proposal fails to address the criterion and/or cannot be assessed due to missing or incomplete information (assigned score: 0) 	30	

¹ Under quality and feasibility, the following aspects will be considered by the panel:

1. Product viability for the project
2. Material/components to be used
3. Market analysis.

8 GUIDELINES AND KEY POINTS

All South African SMMEs relevant to this CFP are invited to submit applications in support of this call. Please note the following:

- Complete the CFP application template provided on the website;
- **Submit your applications by email to: bnkitseng@csir.co.za;**
- All relevant documentation, data and information submitted will be treated as confidential;
- An organisation may submit more than one proposal, but a maximum of two projects can be supported per company;
- The evaluation process for all submissions will be conducted in a fair and confidential manner; and
- All technical experts on the review committee are also bound by an obligation of confidentiality.

9 ELIMINATION CRITERIA

Proposals will be eliminated under the following conditions:

- Submission after the deadline date and time;
- Incomplete submissions;
- Proposal template not completed, signed and submitted;
- Declaration of Conflict of Interest not signed and submitted;
- Declaration of Conflict of Financial Interest not signed and submitted;
- No B-BBEE certificate;
- Listed in the database of restricted suppliers (blacklisted) by the National Treasury;
- No valid Tax Clearance Certificate; and
- No signed CFP Terms of Reference (this document); each page should be initialled and submitted with the proposal.

Successful applications may undergo further due diligence processes before contracting.

10 GENERAL TERMS

- a. The CSIR reserves the right not to engage further with participants should the CFP not meet or address the needs of CPAM.
- b. Enquiries must be sent to Bonolo Nkitseng at bnkitseng@csir.co.za and/or Dr Washington Makoana at nmakoana@csir.co.za.
- c. Failure to comply will render your submission non-responsive and result in disqualification.
- d. Any form of canvassing by an applicant to any member of staff or supplier, for purposes of influencing the process, will automatically disqualify the applicant from the evaluation process.
- e. Applicants shall not offer or give any consideration of any kind to any employee or representative of CPAM or the industry support technical team as an inducement or reward for doing or refraining from doing any act in relation to obtaining or execution this or any other contract with the CPAM SMME support committee.
- f. The committee will nominate the applicants whose CFP is determined to be the most advantageous to the programme, considering the technical suitability of the shortlisted participants.
- g. The CPAM committee reserves the right to cancel this CFP or not appoint any participant should business conditions warrant such a decision.
- h. The terms 'participant', 'beneficiary' and 'applicant' will be used interchangeably and must be read in context with the sentence in which they are used.
- i. **Previous beneficiaries of the CPAM SMME programme may be considered, depending on the availability of funds; however, priority will be given to first-time applicants.**

11 MEDIUM OF COMMUNICATION

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

12 APPOINTMENT OF BENEFICIARY

- 12.1 The contract will be awarded to the applicants who score the highest total number of points during the evaluation process, except where the law permits otherwise.

12.2 Appointment as a successful beneficiary shall be subject to the parties agreeing to mutually acceptable contractual terms and conditions. In the event that the parties do not reach such an agreement, the CSIR reserves the right to appoint an alternative beneficiary.

12.3 If you do not receive a response within 30 days of the closing date, please consider your application unsuccessful.

13 ENQUIRIES AND CONTACT WITH THE CSIR

Any enquiry regarding this CFP shall be submitted in writing to the CSIR via email in the format outlined in the table on the cover page of this document.

14 VERIFICATION OF DOCUMENTS

14.1 Applicants should check the number of pages to satisfy themselves that none are missing or duplicated. No liability will be accepted by the CPAM Industry Support Programme in regard to anything arising from missing or duplicated pages.

a. Only submissions via email will be accepted.

15 CFP COMPLIANCE CHECKLIST

The following documents will be deemed to form, be read and be construed as part of this CFP:

- CFP Terms of Reference (**this document**);
- The Proposal Template for the CFP;
- Valid Tax Clearance Certificate;
- B-BBEE certificate (**if unavailable, a sworn B-BBEE Affidavit will be accepted**); and
- National Treasury CSD registration.

16 COMPLIANCE AND AUTHORISATION FOR CFP RESPONSE

- I/We confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our response to the CFP and that the proposal covers all the services specified in the documents.
- I/We declare that I/we have not participated in any collusive practices with any other applicant or third party regarding this or any other CFP.

- I/we confirm that I/we am/are duly authorised to sign this document.

NAME (PRINT):

CAPACITY:

SIGNATURE:

ORGANISATION:

DATE:

WITNESSES:	
1
2
DATE:	

17 DECLARATION OF CONFLICT-OF-INTEREST FORM (APPLICANT)

This declaration of interest must be completed and submitted with the CFP. Failure to do so may result in the elimination of the applicant's proposal.

Declaration of Interest – CPAM CFP 001-03-07-2026

Are any staff members of your company involved in this CFP process, connected or have any relationship with anyone employed by the CPAM/CSIR?

Yes		No	
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If yes, please state details:

17.3 Declaration of Conflict of Financial Interest – CPAM CFP 001-03-07-2026

Is the SMME/company receiving support for similar interventions from any other South African government department or international organisation?

Yes		No	
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If yes, please state details:

DECLARATION

I, _____ (THE UNDERSIGNED), DULY
AUTHORISED, CERTIFY THAT THE INFORMATION FURNISHED IN THIS CFP IS CORRECT. I
ACCEPT THAT THE CSIR MAY TAKE APPROPRIATE ACTIONS, DEEMED NECESSARY,
SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature

Date

Position

Name of applicant

END OF CFP