**CPAM Mentorship Program application form**

The applicant must hold a minimum of a doctoral degree

As part of the human capital development program of CPAM, CPAM also supports senior mentors who are not full time employed at a research institution, to assist research institutions with doctoral and master student supervision. Senior mentors will also have a responsibility to support the researchers at research institutions in formulating research strategies to ensure that the human capital development programs are relevant and aligned with the latest research trends and industry interests.

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| **Project Title** |
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# **Applicant Details**

|  |  |
| --- | --- |
| **Name of institution/organisation** |  |
| **Title** |  |
| **Surname** |  |
| **Initials** |  |
| **First name** |  |
| **Citizenship status** |  |
| **Employment status** |  |
| **Age** |  |
| **Race** |  |
| **Gender** |  |
| **NRF rating (if available)** |  |
| **Professional registration (if available)** |  |
| **Primary e-mail address** |  |
| **Mobile number** |  |
| **Primary office telephone number** |  |

# **Contact Details**

|  |  |
| --- | --- |
| **Organisation where you are based** |  |
| **Do you have an employment contract with the organisation where you are based?** |  |
| **Details of present employment** |  |
| **Department/School/ Institution** |  |
| **Work postal address (excluding department)** |  |
| **City/Town** |  |

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# **Abstract**

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| Provide an abstract of the proposed mentorship project and the anticipated impact. Limit this to 500 words. |
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# **Overview of career experience**

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| Provide a summary of your career experience. The summary should highlight your research track record, student supervision track record, publication and other knowledge product outputs. |
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# **Motivation**

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| Describe the requirement for mentorship at the institution where this role will be fulfilled. Highlight your specific attributes that will be beneficial for the mentorship role at this particular institution.  |
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# **Mentor Value proposition**

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| Provide a short description of the value proposition of this mentorship position, emphasizing the value that it will contribute to the institution and to the additive manufacturing community.  |
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# **Project Description: Mentorship activities**

Give a detailed plan of mentorship activities that will be supported. The tasks may typically be the main tasks that would constitute the postgraduate research projects of the students that will be supported. Other mentorship activities such as general talks or other outreach activities can also be included

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| Task |  |
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| End Date |  |
| Deliverables |  |
| Resources |  |

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| Deliverables |  |
| Resources |  |

# **Human Capital Development**

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| --- | --- | --- | --- | --- |
| **Description** | **Year 1** | **Year 2** | **Year 3** | **Total** |
| Postdocs supported |  |  |  |  |
| Doctoral students supported |  |  |  |  |
| Master students supported |  |  |  |  |
| **Plans for student graduation** |
| Doctoral students graduated |  |  |  |  |
| Master students graduated |  |  |  |  |

List all students and staff who will be working towards higher degrees as part of this project. Note, master and doctoral level students are a key driver for this programme. Indicate number of males & females and their ethnicity groups that will be impacted by this project.

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| **Student / Staff member Name** | **Thesis title** | **Degree enrolled** | **Supervisor and co-supervisor** | **Race** | **Gender** | **Nationality** | **Links to industry partner / industry project** |
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# **Research Team at the institution**

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| Provide a short narrative on the strength of the team where you will fulfil the role of mentor. Please also highlight other non-permanent staff who do contribute in a mentorship role at the institution. **Students are listed under the HCD section** |
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| --- | --- | --- | --- | --- |
| Name | Position | Appointmentstatus | Highest Qualification | Demographics |
| Gender | Race | Citizenship |
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**Project Risk**

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| Provide a critical assessment of risk that might impact on the execution of this project and how this will be mitigated. |
| **Risk** | **Mitigation** |
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# **Expected Outputs: Knowledge-based Outputs summary**

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| --- | --- | --- | --- | --- |
| **Output** | **Year 1** | **Year 2** | **Year 3** | **Total** |
| Journal papers |  |  |  |  |
| Conference papers |  |  |  |  |
| Technology demonstrators[[1]](#footnote-1) / prototypes[[2]](#footnote-2) |  |  |  |  |
| Process documents[[3]](#footnote-3) |  |  |  |  |
| Patents |  |  |  |  |

# **Expected Outputs: Knowledge-based Outputs detailed planning**

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| --- |
| Provide a description of the expected knowledge outputs from the project (eg: publications in highly rated journals, conference proceedings and Knowledge Products) and provide more detail on the planned outputs in the table below. |
|  |
| **Title or proposed title of scientific output planned** | **Potential authors / inventors** | **Planned date** | **Name of publication / conference / other** | **Status of the output** |
| **Journal articles** |
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| **Conference papers** |
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| **Knowledge Products** |
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# **Project Budget**

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| --- | --- | --- | --- | --- |
| **Description** | **Year 1** | **Year 2** | **Year 3** | **Total** |
| Mentorship grant |  |  |  |  |
| Other costs |  |  |  |  |
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|  |  |  |  |  |
| **Total** |  |  |  |  |
| Co-funding (host institution) |  |  |  |  |
| Funding leveraged from other sources |  |  |  |  |
| **Total requested from CPAM** |  |  |  |  |

**Summary**

# **Ethical Clearance**

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| --- | --- |
| Does this project require ethical clearance? |  |
| Has ethical clearance been obtained?  |  |
| Is ethical clearance attached?  |  |

# **Attachments**

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| --- |
| The following additional documents must be submitted with your application:* Comprehensive CV with publication track record and student supervision record for the Principal Investigator (Compulsory)
* Gantt chart for the project is applicable
* Proof of Ethics approval is required for the proposed research if applicable (Compulsory)
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| Description |  |
| Document Type |  |

# **APPROVALS**

I declare that the information supplied is correct and complete

|  |  |
| --- | --- |
| Applicant Signature | Date |
|  |  |

Approval by Department Head/Designated Authority/Research Administrator or Equivalent Executive

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title |  | Initials |  | Telephone |  |
| Surname |  | Fax |  |
| Department |  | Mobile |  |
| Institution |  | e-mail |  |
| Designated Authority Signature | Date |
|  |  |

Please convert to pdf and submit by return email to: hgreyling@csir.co.za

1. Technology Demonstrator – “An incomplete version of a complete or scaled down/subset of a product put together as a proof of concept with the primary aim of showcasing the possible applications, feasibility, and method of an idea for a new technology. Different sectors use different terms to describe a technology demonstrator, e.g. in the chemical/bio-chemical sector the term ‘product’ or market sample is used. These terms are acceptable and will be considered to be technology demonstrators.” [↑](#footnote-ref-1)
2. Prototype – “An early sample, model, or release of a product built to test a concept or process or to act as a thing to be replicated or learned from. There are different types of prototypes (e.g. proof-of-principle; visual; working; functional prototypes). It can also be market samples or similar concepts; depending on the nature of the industry.” [↑](#footnote-ref-2)
3. Technology Package – “a TP is the key document or set of documents that are the basis for the activity of technology transfer. TPs are a means of communicating process information and knowledge to their recipients – the vendors that the sponsors select to perform the work.” This TP can be in the form of a “Process Document” [↑](#footnote-ref-3)