

Technology and Human Resources for Industry Programme (THRIP)

Guidelines

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Presentation Outline

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Programme Description and Objectives (Sec. 3)

- THRIP was established for the following:
 - to respond to the shortage of high-level technical skills for industry;
 - to improve the competitive edge of South Africa's industry through the development of advanced technologies and highly skilled people.
- How?
 - By leveraging collaborative partnerships between government and industry (working with academia) for research and development in science, engineering and technology on a cost-sharing basis.



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Programme Description and Objectives (Sec. 3) Cont.

- The objective of the programme is to increase the number of people with appropriate skills in the development and management of research-based technology for industry
- The objective will be achieved by implementing amongst others:
 - Improved knowledge exchange and technology transfer through increased interaction and mobility among researchers in Higher Education Institutions (HEI's) and Science, Engineering, and Technology Institutions (SETIs) as well as technology personnel in industry.
 - An increase in investment by industry and government, in research and technology development; and
 - Technology transfer and product or process improvement or development, through research collaboration between enterprises (large and small), HEI's and SETIs.
- The programme is awarded for the following:
 - Applied research and innovation projects as defined in paragraph 5.1.
 - Registration and litigation cost of patents of strategic importance to the South African economy by entities in the IPAP Sectors.



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Priorities for Funding (Sec. 3.4)

- In pursuing its objectives, THRIP should prioritise the following:
 - Working to achieve equity with respect to beneficiaries from THRIP, specifically in terms of:
 - Gender and race of students and researchers;
 - Previously Black Higher Education Institutions (HEIs);
 - Strengthening participation of SMMEs and **Co-operatives**;
 - Strengthening participation of B-BBEE enterprises; and
 - Support for projects within the sectors in latest published version of **IPAP**. Each call will have a main focus on some of these sectors.
- **Co-operatives with a turnover of below five million rand (R5 000 000) will be treated as SMME's. Those with a turnover above five million rand (R5 000 000) will be treated as large enterprises.**
- **Refer to Annexure C.**



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Mandatory Conditions (Sec. 4)

- **The applicant must:**
- Be a registered legal entity in South Africa in terms of any of the following legislation:
 - the Companies Act, No. 71 of 2008;
 - Companies Act (as amended), No. 62 of 1973 (as amended);
 - or the Close Corporations Act, 1984 (as amended)
 - and the Co-operatives Act, No. 14 of 2005 (as amended).
- Industry Associations should also be registered as (per paragraph 4.1 of the Guidelines) above.
- If the registration of the entity with CIPC has not been finalised by the time the application is submitted, the applicant will be given a period of two (2) months to submit their registration certificate.
- Have a partnership with at least one partner being a South African Research Institution:
 - Higher Education Institutions: All South African public (as opposed to ‘private’) HEIs.
 - Science Engineering and Technology Institutions, and
 - National Research Facilities.
 - The duration of the partnership must be equal to or more than the period of the THRIP project.



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Mandatory Conditions (Sec. 4)

Cont.

- The project must include at least four (4) registered South African students at 4th -year level of study or higher, in the SET fields; and must be involved and trained through the research being conducted.
 - If 50% or more of South African Black students are involved in a project, **fifty thousand rand (R50 000)** per each South African student will be made available for a THRIP project to a maximum amount equivalent to the total qualifying cost.
 - If the project meets the conditions in section 4.2.2 above, then for students from other African countries involved in a THRIP project, a maximum amount of **twenty-five thousand rand (R25 000)** per student will be provided for the project; to a maximum amount equivalent to the total qualifying costs.
- The research leader must have the appropriate post graduate qualification and experience to lead the project and to train students up to postgraduate level.
- Applicants must submit a valid B-BBEE certificate of compliance in terms of the B-BBEE codes of good practice available on the dti's website: www.thedti.gov.za. Applicants with a turnover of less than ten million rand (R10 000 000) may submit financial statements verified by an independent external auditor or accredited person.



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Mandatory Conditions (Sec. 4)

Cont.

- If the condition above (in section 4.3 of the Guidelines) is not met, the applying entity will be required to partner with at least one of the Historically Disadvantaged Institutions of South Africa or
- If the partnership or collaboration is a tripartite between the industry, previously advantaged university and previously disadvantaged university, a plan of how the previously disadvantaged universities will be involved in the project should be submitted and the benefits must be defined, including transfer of skills and capabilities in terms of equipment management and operation.



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Qualifying Projects (Sec. 5.1)

- ***All projects, must meet all criteria in order to qualify for financial support from THRIP.***
 - The project must be applied research in the fields of science, engineering and/or technology whose outputs could make a significant contribution towards improving the industry partner's competitive edge;
 - The project intention should be to innovate, i.e. should lead to the creation and transfer of new knowledge into a process or product (prototype), or the transfer of existing knowledge into a new process or product to benefit the industry partner.
 - The project must have clearly defined scientific and technology outputs, plus human resource outputs expected for each year of support;
 - The project must demonstrate causality (demonstrable output or outcome), implementation (the way in which the output/outcomes will be used by the industry partner) and additionality (the degree to which the research would not have been undertaken without THRIP) that will follow from THRIP support.
 - In case of applicants partnering with Historically Disadvantaged Institutions (HDIs) as main research partners, projects with research activities spanning from basic towards applied research whose outputs could make a significant contribution towards improving the applicant's competitive edge will be considered for funding..



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Funding Criteria (Sec. 6)

- THRIP is a cost-sharing grant of up to **eight million rand (R8 000 000)** per annum for a period three (3) years for approved project engaged in applied research and development in science, engineering and technology as follows:

INDUSTRY PARTNER(S)	CONTRIBUTION		
	THRIP	LARGE ENTERPRISE/INDUSTRIY ASSOCIATION (IA)	SMALL, MEDIUM & MICRO ENTERRPRISE
Large companies OR Registered Industry Association (IA)	50%	50%	-
SMMEs	75%	-	25
SMMEs with level two (2) B-BBEE contributor status (≥ 95 but < 100 points on generic scorecards)	80%	-	20%
SMMEs with level one (1) B-BBEE contributor status (≥ 100 points on generic scorecards) OR Applicant partnering with previously disadvantaged universities.	90%	-	10%



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TIPTOP and IPR (Sec 6.3)

- **Technology Innovation Promotion through the Transfer of People (TIPTOP) Funding**
- THRIP provides a maximum grant of **five hundred thousand rand (R500 000)** per candidate for transfer of knowledge through physical relocation of participants (researchers or technology managers) between the organisations involved in the projects (from the HEI or SETI to the industrial laboratories and vice versa) for a maximum period of three (3) years in a funding cycle.
- The grant is based on the **fifty percent (50%)** of the time spent on the THRIP project and linked to the salary of the candidate.

TIPTOP and IPR (Sec 6.3) Cont.

- The placement of SET graduates in companies approved for THRIP funding for a fixed contract of two (2) years to work on the research or technology development projects within the firms or partnering research institutions in order to gain first hand relevant industrial experience.
- These graduates should have a science, engineering or technology qualification and shall be paid a monthly stipend of :
 - **six thousand rand (R6 000)** for NDip graduates,
 - **eight thousand rand (R8 000)** for BTech/BSc graduates,
 - **ten thousand rand (R10 000)** for four (4) years BSc Engineering/BSc Honours graduates,
 - **twelve thousand rand (R12 000)** for MTech/MEng/MSc graduates and;
 - **fifteen thousand rand (R15 000)** for DTech/PhD graduates.



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TIPTOP and IPR (Sec 6.3) Cont.

- **Intellectual Property Rights (IPR) Funding**

- THRIP provides support of once-off maximum grant of **fifty thousand rand (R50 000)** per project for the cost of legal advice on the development of an agreement on the treatment of intellectual property (IP) to approved applicants; and a maximum grant of **fifty thousand rand (R50 000)** for each SMME (involved in the project) that is collaborating with large enterprise.
- Arrangements for the ownership and exploitation of intellectual property arising from a project must be agreed upon between the applicant and the HEI/SETI prior to commencement of the project. No funding will flow unless an agreement on IPR arrangements is in place.



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Cost for Registrations and litigation of patents (Sec. 6.3.3).

- Costs of registration and litigation of patents (THRIP applicants):
 - Costs for registration of patents.
 - Costs of litigation of patents disputes by SMME's against large and international enterprises capped at **one million rand (R1 000 000)**.
- Costs of registration and litigation of patents of strategic importance to the South African economy by entities in the manufacturing sector (Applicants not participating in the main THRIP):
 - Costs for registration of patents.
 - Costs of litigation of patents disputes by SMME's against large and international enterprises capped at **one million rand (R1 000 000)**.
 - Costs of litigation of patents disputes by Black-owned large enterprises against other large and international enterprises **only** capped at **one million rand (R1 000 000)**.



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Bursaries (Sec. 7)

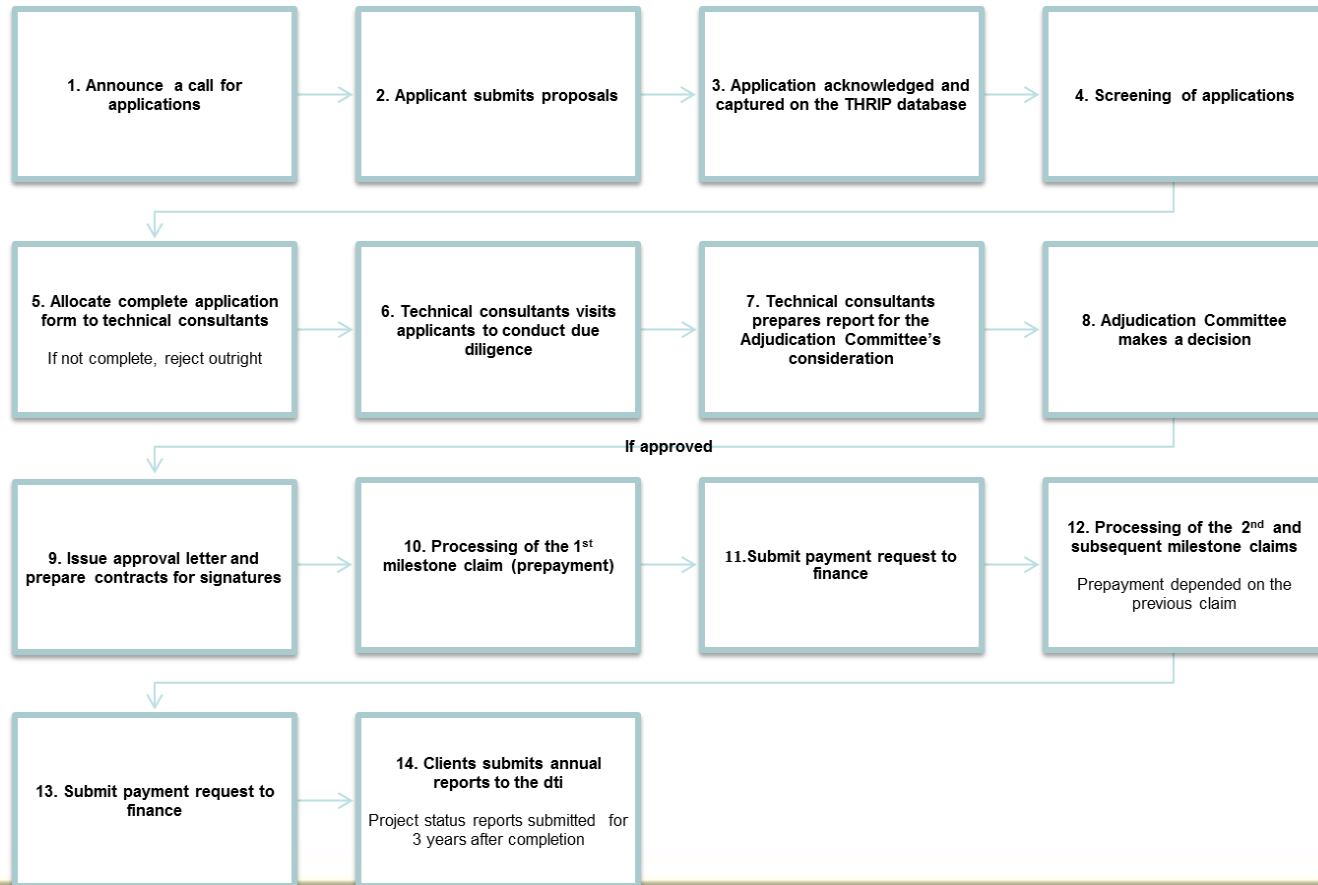
- Bursaries; THRIP will contribute as follows:
 - For PhD Students participating in the THRIP project, a maximum of **two hundred thousand rand (R200 000)** annually.
 - For Masters Students participating in the THRIP project, a maximum of **one hundred and fifty thousand rand (R150 000)** annually.
 - For Honours/BTech students participating in the THRIP project, a maximum of **eighty thousand rand (R80 000)** annually.



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THRIP Business Process



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