

Ref: I-STEM/Catalyticgrant/intern_03/2022-23

Date: 26-Dec-2022

To:

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The Indian Science technology and Engineering facilities Map (I-STEM) through its internship program under Kaushal Bharat would like to invite R&D labs, to avail technical services of suitably trained persons/interns (hereafter, TP) on a full-time basis, for smooth running and maintaining the R&D facilities as well as creating a pool of skilled personnel in the host institution/university and in nearby regions using the support through catalytic grants. To avail the support through I-STEM, the following terms are to be satisfied.

1. A declaration from the Registrar (on Institution letterhead) of the host institute that all the R&D equipment are listed at the I-STEM portal with required details, such as, usage rate, suppliers/service provider and Annual Maintenance Contract (AMC) Records/Health of all the equipment, and it is mapped with the operators to take care of the internal and external bookings through I-STEM portal may be submitted. In addition, the Faculty members and Research Scholars may be advised to become part of the I-STEM portal and share their research domains and their R&D outcomes (Technology Products, Patents, & Publications for last five years) to make them a part of the expert bank as well as digital catalogue respectively, as needed to support researchers across the country. The Institute shall place a hyperlink to the I-STEM web address (www.istem.gov.in) and its logo at home page and in all departmental/labs websites associated with it (if any) of the institution. The head of institution will submit a Quotation for technical services/training in favor of I-STEM, CeNSE, IISc Bangalore for commitment of budget and raise a Purchase Order for the same as per the norms of the host institute.
2. The no. of interns/TP shall not be more than two in any circumstances and shall not be supported more than 3 months or till the arrangement made by the host institution, whichever is earlier.
3. The host Institute shall submit CVs and scan copies of the relevant degrees/certificates of the recommended candidates for the final approval. The TPs/interns selected should have a suitable technical background (ITI/Diploma/Polytechnic/Bachelor/Master Degree in medical/engineering, or science etc). The interns should not be students/research scholars of the host institution/university in any manner.
4. The TP shall attend the training sessions (online and offline) conducted by the I-STEM office; subsequently, the TP shall schedule the training for un-employed youth of the local region to generate the skilled manpower. Such training shall be notified via the I-STEM portal as well as other appropriate means to get suitable applicants.
5. The TP will be responsible for the following: (a) operating and maintaining facilities designated to them; (b) training researchers of University/Institution as well as those from nearby universities/institutions to make them independent tool operator and un-employed youth of the local region to create a pool of tool technologists to fulfil the needs of other labs; (c) enhancing facility usage through the I-STEM portal by inviting internal and external users on pay and use basis, through appropriate advertisements; (d) assisting in generating funds for operation and maintenance.
6. The TP shall maintain records/log books of the facilities maintenance/operation and AMC's (Annual Maintenance Contract), so as to enhance the usage and the longevity of the R&D facilities.
7. The TPs are to be paid a monthly service fee of ₹22,000 for 03 months (only); this service fee (NOT a salary in any manner) shall be billed to the **National Coordinator, I-STEM, IISc Bangalore**, at the rate of ₹ 22,000 + applicable GST, if any, per TP. After three months or before, the host institute/university shall arrange the manpower for smooth O&M of the R&D

facilities. If the two TPs desire and found suitable, they may be hired later (after the said 03 months) by the host university/institution for running facilities as per the norms of the university/institute on either full time or part time basis. Institute must care about the safety of the interns or protect them using personal accidental insurance, if needed.

8. As I-STEM cannot extend its support beyond three months, it is hoped that Host University/Institution will evolve a model for self-sustenance of R&D facilities and work towards bringing projects funded by different sources, including industry and continue sharing equipment with internal and external users in democratic manner through I-STEM portal.

9. During internship, the technical staff will follow all the norms of the host institute as well as support the I-STEM activities (if desired by I-STEM office).

10. The goal of this I-STEM initiative is to generate skilled personnel in the country. Hence, during the three-month period involved, the Coordinator/In-charge/Registrar shall endeavor to conduct more skill development training programs on various sophisticated scientific equipment of affiliated labs in a self-sustainable mode (by charging training fee to applicants) to create a pool of skilled personnel (at least 100-150 nos. in a year) for Operation and Maintenance (O&M), generate fund for smooth O&M/ technical services as well as to keep better health of the instruments to extend the life of the R&D tools. The trained technologists must be listed at the I-STEM portal so that they may be hired by the Industries/national labs/academic institutions. The Skill Development Program must be advertised on the I-STEM portal in the Kaushal Bharat Section and applications (from candidates) may be collected for the same. Applicants must be Polytechnic/Diploma/ITI/BSc/BTech/MSc degree holders from the Indian Universities/Colleges. They must also be from the nearby region i.e. < 50 km from the host institution. Outstation candidates as well as the students, currently registered for any degree, may be avoided or may be treated as self-supported applicants, if invited.

12. Institute may explore the opportunity to establish a (i) “Tools Learning Centre (TLC)” with the written off equipment and (ii) digital library of accessorizes/spare parts at I-STEM portal and conduct training to generate an indigenous cadre for maintaining complex apparatus/equipment, reducing maintenance costs as well as ensuring prompt servicing so that tools downtime is kept to a minimum.

13. The head of Institution is advised to share the vacancies at I-STEM (Employment opportunities) and Seminar/Symposium/Webinars/Conferences at I-STEM (Event section) which are planned/being organised (Event section at I-STEM) among members (approx. 16K) listed at the portal for better participation. The researchers of the host institutions may submit project proposal for partial funding from I-STEM. <https://www.istem.gov.in/rd-infrastructure-map/funding-opportunities-researchers>.



(Dr. Sanjeev Kumar Shrivastava)
National Coordinator, I-STEM

CC to:
The Registrar, NIT Warangal
The I-STEM Office