

ATDC- JUKI Research Fellowship Programme





ATDC SMART TOT Academy:

The **ATDC SMART TOT Academy** is an ATDC initiative under the Integrated Skill Development Scheme (ISDS) of the Ministry of Textiles, Government of India.

This Training of Trainers' (TOT) Academy is set up by ATDC in order to upgrade the knowledge base and skill levels of instructors and trainers and to develop an industry oriented approach in their pedagogy, teaching and instructional methodologies.

The key objective of the ATDC-SMART TOT Academy is to bring about an overall systematic change in the apparel industry while providing better quality trainers for industry.

The Academy is developing trainings curricula and manuals, organizing and conducting PAN-India Training of Trainers programmes, initiating International Knowledge Exchange programmes and holding workshops with renowned Experts from India and overseas, to benefit the ATDC's faculty resources and the industry's technical personnel. The Academy is Developing Digital Contents, Soft Skill Modules, which follow the blended learning approach and bring standardization and efficiency to delivery methodologies.

ATDC has established 3 Training of Trainers (TOT) Academies, the first one of which has been established in Gurgaon in the National Capital Region, the second in Thiruvananthapuram, Kerala and the third one in Chhindwara, Madhya Pradesh became operational on 28th February 2013.

The ATDC- JUKI Tech Innovation Centre is building "deep dive" capabilities through advance training, innovative processes, technical guidance and close linkages and interface with apparel industry. JUKI has been a technological leader in Apparel Industry and through this collaboration this has become a landmark academia-industry partnership.

ATDC-JUKI TECH Innovation Centre

ATDC-JUKI TECH Innovation Centre at ATDC SMART TOT Academy is a significant initiative to engage the Apparel units, especially the SMEs, to adopt new technologies for increasing productivity, efficiency and quality for better price realization. These will also result in better global competitiveness.

ATDC-JUKI TECH Innovation Centre is working towards bridging the gap between the industry's technological requirements and the prevalent vocational training programmes.

Key objective of ATDC-JUKI TECH Innovation centres are:

- ❖ To showcase the Advance Technologies and state of art machines that may not be easily available at all ATDC Centers and Export Houses.
- ❖ To organise new training programmes and seminars for ATDC faculty resources and Industry personnel that focus on new technologies which enhance productivity and quality while providing cost effective solutions to the Apparel Industry.
- ❖ To conduct programmes related to Sustainable Fashion.
- ❖ To encourage Applied and Basic Research approach to replace the traditional technologies and processes by modern and innovative methods for strengthening the Apparel Industry.

Research Fellowship at ATDC-JUKI TECH Innovation centre

The last decade has seen a shift in apparel technology developments, which is evident from the Technological exhibitions that showcase that innovation has to provide solutions which are flexible and user-friendly.

Research has shown that just increasing the sewing machine speed does not necessarily result in higher production, non-sewing elements are becoming equally critical and thus the role of new concepts and methods. Some of the concepts like direct drive, dry head technology etc. highlight the fact that Research is critical. Further Sewing, once considered the only means of joining components, is losing market share to technologies like heat sealing and ultrasonic welding. Keeping all this in view there is a need to provide a platform and encourage such initiatives by talented and motivated scholars.

Research will be conducted using the hourglass model structure of research. The hourglass model starts with a broad spectrum for research, focusing in on the required information through the method of the project (like the neck of the hourglass), then expands the research in the form of discussion and results.

Guidelines for Admissions

Eligibility: Postgraduate degree with at least 6 months internship or 1 year industry experience / Advance Diploma with 3 years' experience, in Apparel/Garment Manufacturing, Fashion Technology/Design/Management with minimum of 50% marks in Post-graduation or equivalent qualification from recognised and reputed Institutions.

Those appearing for their Master's Degree final examinations, having completed 6 months /one semester of Industry internship in the respective disciplines may also apply.

How to apply: Interested candidates are required to submit duly filled application form in the prescribed format along with Initial Research Proposal (Synopsis) stating Objective, Methodology etc.(not more than 1200 Words). The shortlisted candidates may be called for Personal Interview.

Selection Procedure: Selection will be made on the basis of a cumulative assessment of Academic/ Industry experience/ Research Proposal/ Interview.

Note: - No TA/DA will be paid for attending Interview or participating in selection process.

Research Areas:

1. Andon (Visual Factory)
2. Development of Sewing Machines/ Equipment for differently abled persons.
3. Design and Development of Simulated training device/software for Trainings in Apparel Sector
4. Value Stream Mapping

Fellowship: Selected candidates will be offered fellowship of a consolidated amount of **Rs. 25000/- per month (All inclusive)**. This position is purely temporary and co-terminus with the project.

Duration: Research Fellowship will be tenable initially for one year. It may be extended further annually at the discretion of ATDC based on Assessment Committee Report.

Submission of an Initial Research Proposal (Synopsis)

Submission of a research proposal is a compulsory requirement for admission to the Research Fellowship Programme. A research proposal consisting of approximately 1,200 words should accompany the application form keeping in mind the following points:

- Justification that the research work/ proposal would be original and no work has been done on the proposed topic.
- Specification of the broad field of study,
- Statement of the research problem and scope and objectives of the study,
- The rationale for and the significance of the study,
- The methodology to be followed,
- The candidate's research/work experience in that area, if any.

Applicants, currently employed and seeking admission, have to submit a 'No-Objection Letter' from the employer in support of the application. Upon admission the scholar is expected to fulfil the admission requirements through personal visits to the Institute. Thereupon the scholar is expected to attend the Institute from time to time to fulfil various academic requirements.

Research Fellowship programme:

Research Fellowship Programme to be pursued at the ATDC-JUKI TECH Innovation Centre at ATDC-NHO, Gurgaon.

The programme would have three components i.e. Contact classes, Expert Seminars and Presentations and Submission of the Research Project.

Contact Classes & Expert Seminars

Research fellows need to attend certain contact classes for the Training and Research Methodology and other pertaining areas in first phase of Research Fellowship programme. This is mandatory.

Seminars and Presentations

Interactive seminars in areas of Research and emerging issues related to the Apparel Industry to be conducted by Research Fellow. The purpose of the seminar will be to provide a forum for the candidates to share their experiences and knowledge on topics of current interest in the Apparel Industry. The interactive seminar would be evaluated by Panel of experts.

Supervision and Guidance for Research Fellowship:

A candidate selected for admission to the Research Fellowship programme will work under the supervision of a guide, or a guide and a co-guide. *The Research Fellowship Advisory Committee (RFAC)* will assign an appropriate *Project Guide/ Mentor* and review the progress made by the scholar. The committee will also be the deciding authority for all matter related to the fellowship.

Submission and Evaluation of Research Fellowship Thesis

The scholar must publish at least one paper in standard refereed journals before submitting the thesis. The research scholar should submit, Four copies of the thesis embodying the results of his/her research work and make a seminar presentation.

External examiners along with internal examiners will adjudicate the thesis. Thereafter, the Viva-voce examination will be conducted in the presence of the adjudicators along with the Research Guide. Once, this panel recommends that the scholar has successfully completed the Research Fellowship Programme, he/she will be awarded the Research Fellowship.

COPY RIGHTS

(A) Publication: The results of Fellow's research work may be published in standard refereed journals at the discretion of ATDC. *IT SHOULD BE ENSURED THAT THE ATDC is ALWAYS ACKNOWLEDGED IN ALL SUCH PUBLICATIONS.* One copy of the published research papers should be sent to ATDC.

(B) Patent: The commercial and technical rights of the ownership of the research work reside with the ATDC.

OBLIGATIONS OF RESEARCH FELLOW

- i. He / She has to submit himself/herself to the disciplinary regulations of the Institute where he/she is working. Required attendance of the fellow may be ensured by the department by keeping an attendance register.
- ii. The fellow may assist ATDC in its academic work/other activities, as per guidelines of Research fellowship programme, provided such assignments should not hamper the progress of research work of the fellow.
- iii. Once a Research Fellow accepts the Fellowship and joins, it is incumbent on him/her to continue the research for the normal tenure of the fellowship or for such lesser duration in which the original objectives of the research problem have been achieved.
- iv. No Fellow shall discontinue his/her Fellowship without prior approval of ATDC. In case he/she wishes to discontinue the fellowship prior to completion of the tenure on attainment of original objectives of research, he/she must submit the resignation to ATDC through the Guide one month in advance, indicating specific reasons for not continuing the Fellowship. The Fellowship shall cease from the date stipulated in the ATDC letter approving the resignation.
- v. The research Fellow must submit a detailed consolidated report of the research work done during the entire period of Fellowship on completion of the tenure/resignation of the Fellowship through the Guide to ATDC.