

Request for Proposals for Development of Grammar-Based Technologies for Indian Languages
TDIL Programme, Dept. of Electronics & Information Technology, Govt. of India invites project proposals for the development of grammar-based tools and modules at the levels of morphology, syntax and discourse to realize the National Vision of “Information Access in Indian Languages”

1. Introduction

Department of Electronics & Information Technology , Ministry of Communications & Information Technology Govt. of India promotes e-Development of India through multi pronged strategy of e-Infrastructure creation to facilitate and promote e-governance, promotion of Electronics & Information Technology- Information Technology Enabled Services (IT-ITeS) Industry, providing support for creation of Innovation / Research & Development (R&D), building Knowledge network and securing India's cyber space. [Details at : <http://www.deity.gov.in>]

2. TDIL Programme & Its Objective

Technology Development for Indian Languages (TDIL) Programme is a Flagship Programme of Department of Electronics & Information Technology (DeitY), Ministry of Communication & Information Technology (MC&IT), Govt. of India has the objective of developing Information Processing Tools and Techniques to facilitate human-machine interaction without language barrier; creating and accessing multilingual knowledge resources; and integrating them to develop innovative user products and services. The Programme also promotes Language Technology standardization through active participation in International and national standardization bodies such as ISO, UNICODE, World-wide-Web consortium (W3C) and BIS (Bureau of Indian Standards) to ensure adequate representation of Indian languages in existing and future language technology standards. [<http://www.tdil.mit.gov.in>]

Objectives:

- Research and Development of Multilingual Computing in all 22 Constitutionally Recognized Languages
- Proliferation of Language Technology Solutions
- Development of Standards related to Language Technology

3. Problem Definition & Broad Objective

Problem Definition:

Development of technologies based upon computable word, phrase and discourse level grammars for Indian languages, e.g. grammar-based taggers, chunkers, parsers and generators that may be deployed as modules in various language technology products.

Broad Objective:

To develop and deploy computable grammars at the level of words, phrases, sentences and discourse, and build re-usable modules for language technology solutions in information retrieval, machine translation and various kinds of man-machine interactions.

4. Technology Areas

- (1) Man-machine interaction
- (2) Machine Translation
- (3) Information Retrieval

5. Proposal Details

Comprehensive project proposal may be submitted clearly specifying the technological problems to be addressed, expected outcome, deployment plan and budget requirements. The project proposal should contain the following details

5.1 Technical Details

- 1) Executive summary
- 2) Theoretical background and implementation details
- 3) Year-wise statement of deliverables
- 4) Proposed national and international collaborations (if any)

5.2 Budgetary Details

- 1) Year-wise budget breakup
- 2) Specification of required manpower and equipment

6. Evaluation of the Project Proposal

Project proposals will undergo rigorous evaluation by a National Level Expert Committee at the first stage, followed by evaluation by the TDIL Working Group and DEITY Officials.

7. Who can Apply

An individual or Consortium of Indian University/ Institution/ R &D Organization may submit the project proposal. A Consortium Mode project may involve small, medium or large Industrial Partners having DSIR* recognized in-house R&D unit(s) and Indian Universities, Institutions and R&D Organizations.

8. Proforma: The details can be downloaded from: <http://deity.gov.in/content/scheme-forms>

9. Last Date:

TDIL Programme invites proposal round the year. However, to be considered in the next TDIL Working Group Meeting, the last date of submission of project proposal is 31st Mar 2015.

10. How to Apply

Completed Project Proposal both Soft and Hard-Copies(3) duly signed by the Chief Investigator and Head of Institution may be submitted to:

Swaran Lata, Director .
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