

# Foundation for Advancement of Education and Research

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## FAER SCHOLAR PROGRAM: 2024-2025

### Rules of the Contest

- 1) Bonafide students doing B.E. in recognized institutions are eligible to participate in this contest. students can belong to second or third or final years.
- 2) Some of the related subtopics are
  - Computer Science, Data Science and Information Technology
  - Cyber Security and safety
  - AI and hybrid intelligence
  - Communications technologies and concepts (Digital, Optical, Wireless, mobile, Satellite etc.)
  - Renewable Energy Systems
  - Applications
  - Innovative applications of systems for problems related to rural areas and disadvantaged people - health, education, renewable energy, labor saving technologies, rural technologies, etc.
- 3) The project proposals submitted by participants should pertain to any of the above topics or related areas. It should discuss the merits of the topic chosen. It should deal with new ideas/experiments / devices; innovation and details of implementation as well as its impacts on society.
- 4) The project team (batch) can have up to a maximum of **four** students.
- 5) The team should submit a letter from the principal of their institution stating that they are Bonafide students of the institution studying for the degree.
- 6) The team should submit the project proposal in the prescribed form signed by their project advisor and principal.
- 7) Please select the title of the project carefully. It should be detailed and not be on an area like IOT for medicine or ML for plants growth or games by ML etc. The title should reflect the topic and focused outcomes. Give a serious thought about the title of the project.
- 8) The team should submit a declaration that the work proposed will be taken up exclusively for the FAER Scholar Contest.
- 9) The team should also submit an undertaking that if the project is selected, they will take it up, complete within three months and submit the detailed project Report to FAER.
- 10) The Principal / HoD should give us an assurance that facilities required will be provided to

the selected students. This may be part of the proposal.

- 11) Project proposals should be sent both **hard copy** and **soft copy** (by email) containing all details as per the format declaration and undertaking to our address by **15<sup>th</sup> October 2024**.
- 12) Project proposals will be reviewed and evaluated by a team of experts. The experts will select projects suitable for funding and also decide on the grant. The announcement of projects selected for this programme will be on **15<sup>th</sup> December 2024**.
- 13) Evaluation will be based on
  - Relevance to our focused areas
  - Originality / innovation / novelty
  - Technical strength
  - Utility / applicability and Feasibility
  - Methodology and approach including implementation.
  - Analytical capabilities
- 13) Proposals without proper details may be rejected.
- 14) All projects dealing with AI should use data from Indian sources. All medical, agricultural, biological, energy, transport applications should mandatorily consult experts in that area, their names should be provided in the proposal.
- 15) Selected teams will be informed by us along with conditions and details for submission of the project report by **15<sup>th</sup> December 2024**. The concerned students should go ahead with initial preparations without waiting for approval from us.
- 16) The teams should submit the project completion report by **20<sup>th</sup> May 2025**.
- 17) The teams should submit the following by 20<sup>th</sup> May 2025 - a short 4 to 5 pages summary of the work done with a short introduction, literature critique, project objective, design methodology, data sets developed or acquired, consultations done with experts like doctors or energy or agricultural or transport or biology specialists, experiments, results, deliverables, comparisons with existing devices or systems, conclusions, references and acknowledgements.
- 18) The teams should send us a video of the demo of the final project with experiments and working modes. The video should be clearly visible. They should send a PowerPoint presentation (ppt) also.
- 19) The final presentation should be the actual devices or systems. Videos are not accepted. Please do a dry run before the final presentation to the judges. Use proper lighting, cameras, speak clearly and audibly.
- 20) A team can send only one project proposal
- 21) The completed projects will be reviewed. A Seminar-cum-Exhibition will be arranged either physically or online based at Bangalore. The awards will be selected in the seminar. Seminar invitations will be sent to all project teams.
- 22) The FAER Scholar Awards - The first prize will be Rs. 1,00,000/- (Rs. 80,000/- to Students Team and Rs. 20,000/- to Project Guide), The second prize will be Rs.75,000/- (Rs. 60,000/- to Students Team and Rs. 15,000/- to Project Guide), Third prize Rs.50,000/- (Rs.40,000/- to Students Team and Rs. 10,000/- to Project Guide). The scholars will be selected by experts.

The awards and grants to all selected teams will be sent to the students.

- 23) Kindly note that the topic chosen should be a focused one - not very general or diffused; should be preferably an experimental one - not just programming work / simulation; and should be feasible and implementable in 3 - 4 months in the institutions.
- 24) In order to provide knowledge support, we identify mentors who are leaders in the areas with considerable knowledge and experience to help shortlisted and selected projects. The team should agree to discuss with mentors regularly. This is a serious requirement and not following this may lead to disqualification of a selected project.
- 25) Read our instructions carefully before submitting the proposal and follow the guidelines.
- 26) Kindly visit our website for details and other relevant information and further announcements.

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