

Thematic Area, Application Format and Conditions

1. The thematic areas of research

The research grants are available for applied research focused on various climate-smart livestock themes, including but not limited to the following topics:

Animal Nutrition and Feed Management

Explore low-cost alternative feed sources, including crop by-products, while enhancing nutrient utilization efficiency in livestock. This approach aims to reduce feeding costs and improve overall productivity.

Feed additives

Research the potential for feed additives, improve feed/rations to enhance animal nutrition and reduce methane emissions.

Develop apps/start-up systems for cattle feed management at farmers' levels

Developing apps or start-up systems for cattle feed management enables farmers to create tailored feeding plans, reduce feed wastage, and improve productivity. Digital tools can provide data-driven insights, real-time updates, and cost-effective solutions.

Reproductive Technologies

Investigate advanced reproductive techniques, such as artificial insemination (AI), to enhance breeding efficiency and improve genetic potential in livestock.

Animal Health and Disease Management

Design alternative health management strategies or innovative animal health services to help farmers address diseases such as Lumpy Skin Disease (LSD) and other diseases for livestock health challenges.

Cow Dung Management

Explore the production of value-added products such as organic pesticides/ sanitary cleaning products, biodigesters, and innovative composting methods to transform cow dung into profitable resources while reducing greenhouse gas emissions from livestock farming.

Climate Change and Resilience

Develop adaptive management practices, including improved feed and fodder production systems and regenerative agricultural techniques, to help livestock producers respond effectively to climate variability.

Strategic Marketing of Animals and Products

Develop innovative, climate-smart marketing strategies for dairy, beef, goat, milk, meat, and their by-products. These strategies should aim to reduce greenhouse gas emissions while maximizing business opportunities.

2. Application instructions

The detailed instructions for the scholarship are provided below:

Qualifications

- Completed graduate degrees from relevant universities, research institutions, or colleges, are eligible to apply.
- Researchers from relevant departments who have not been admitted to a university's Master's program but are in the process of registration may also apply for the research grants program.
- Applicants who are employed and pursuing a Master's degree must secure written permission from their respective authorities before applying for the grants.
- Applicants who are pursuing a Master's degree at a government-accredited university or college are also eligible for the grants program.

3. Terms and Conditions

- Applicants must hold a four-year graduation course completion certificate in a technical or business education field from a government-accredited university/college in Bangladesh or abroad.
- Research proposals must focus on innovative, climate-smart livestock themes aligned with the identified thematic areas.
- The research duration is 12 to 18 months, with four grants available (subject to adjustment based on the merit of proposals and funding availability).
- Research must align with the socio-cultural conditions of Bangladesh.
- Research ideas must be original and independently executed, without infringing on intellectual property rights or claims by others.
- Applicants must submit a copy of their NID to verify permanent residency.
- Each applicant may apply for only one thematic area.
- Applicants must be 30 years old or younger on the application deadline date, with female applicants strongly encouraged to apply.
- Selected candidates will undertake the research under the guidance of expert advisors.
- Four selected candidates (preferably two male and two female) will receive grants based on the merit and innovativeness of their proposals.
- For Candidates who have no affiliation with the university/college, the BCSL project will support them in tagging with any reputed university/college based on their proposals with an agreement between BCSL and affiliated institutions.
- Candidates who have affiliated with research institutes or university departments, require a memorandum of understanding between the BCSL project and the respective entity.
- The two best-performing research works will be nominated for progression to international events, including COP 30, to present their innovations to a global audience and might get an offer for an internship in a giant private industry. Nominees must demonstrate English proficiency and presentation skills.
- Other two researchers will be nominated for an internship with the BCSL project upon completion of research.

- A bilateral agreement, including intellectual property rights, will be signed with each researcher before the research begins.
- During the internship a modest monthly allowance will be provided to each successful researcher as per the organizational policy and rules.
- The BCSL project reserves the right to amend or modify the terms and conditions at its discretion.

4. Criteria for evaluation

- 25%: Innovation: does it contribute new information to a key issue for livestock in Bangladesh
- 25%: Quality: is the research proposal described clearly and with a strong scientific foundation
- 25%: Feasibility: is there a rigorous methodology and research design to test or evaluate this technology, and can it be assessed reasonably in the period of 6-9 months
- 25%: Impact: does the topic address a major issue for livestock, with the potential to improve production, profitability, and climate impact

5. Application format

Bangladesh Climate Smart Livestock Project

Application form of Innovative Research for Climate Smart Livestock

A. Personal information

1. Name of the Applicant:
2. Father's name:
3. Mother's name:
4. Date of Birth:
5. Village/ward no/Road:
6. Upazila:
7. District:
8. NID number:

B. Educational and Technical Background

- **Name of University/College/Institution:** Specify the name of the institution where the applicant is currently enrolled or from which they graduated.
- **Year of Graduation, Grade, and Class Rank:** Provide the year of passing, overall grade/score, and the applicant's position relative to the total number of students in the class.
- **Thesis/Paper/Article Publication (if available):** Mention the title of any thesis, paper, or article published, including the name of the peer-reviewed journal, web link (if available), and the applicant's role or contribution as an author.
- **Presentation at International Conferences/Seminars (if available):** Provide the title of any paper presented at international conferences or seminars, including the event's name, location, year, and a web link to access the proceedings.

C. Research Proposal

1. Proposed Research title.
2. Objectives of research (at least three).
3. Scope of the research (not more than 500 words)
4. Methodology (not more than 1000 words)
 - Research location
 - Provide a comprehensive outline of key activities and experiments, including a quarterly activity schedule. The work plan should also specify the timeline for presenting findings and the deadlines for submitting draft and final reports.
 - Experimental design/prototype/thematic sketch (if any).
5. Expected results (not more than 400 words):

*** If needed extra pages can be used*

Signature of applicant and date