

স্মারক নং-পরিপ্রবি/কৃষিতত্ত্ব/BANBEIS/LS20191193/জবনি/২০২১-২২/০১

তারিখ: ০৪.০৭.২০২১ খ্রি.

Vacancy Announcement

Department of Agronomy, Patuakhali Science and Technology University, Dumki, Patuakhali is going to implement a project entitled “**Exploration of new sources of tolerance to submergence of coastal rice landraces through phenotyping and DNA fingerprinting**” funded by **BANBEIS** (Project ID: LS20191193), Ministry of Education, Bangladesh.

Project Description

The frequent flash flood submergence of rice during the pre-monsoon and monsoon seasons is considered as important hazard to the agriculture of Bangladesh. Due to ‘extreme weather events such as unpredicted heavy rains’ and ‘domestication bottlenecks’ the submergence tolerance capacity of the elite cultivars would be under threat to counteract the submergence-induced yield loss. The trait-specific characterization of rice germplasms (for example, submergence tolerance of rice) could be highly promising at this moment for accurate varietal identification and finding out of novel gene/allele. In this project we propose to collect fifty (50) coastal rice landraces from farmers’ field and Bangladesh Rice Research Institute. The collected landraces will be characterized firstly at germination and seedling stage for submergence tolerance through phenotyping. The phenotype data will then be validated through extensive molecular characterization using 12 Submergence 1 (Sub 1) QTL-linked microsatellite markers. Afterwards, the potential submergence tolerant rice landraces will be evaluated for various growths and yield attributes under semi-control submergence conditions. Finally, a comprehensive field trial of the promising submergence tolerant rice landraces will be carried out for validation of growth and yield performances under natural low land coastal ecosystem. We firmly believe that outcomes from this study could be highly important as new sources germplasm stocks of submergence tolerant rice landraces that ultimately will help undertaking specific breeding/biotechnological interventions in developing climate-smart submergence tolerant high yielding rice cultivars.

Positions Announced: Under this project, the following positions are open for fill up.

1) Ph. D. fellow-(01)

The Ph. D. fellow will be working under the supervision of the project management team while s/he needs to meet the admission criteria of PSTU (see page 3). The major responsibilities include but not limited to-

- Planning of research
- Carrying out both field and laboratory trials
- Advanced biochemical and molecular analysis using spectroscopy and PCR.
- Data analysis.
- Reporting and publication

The candidate will be selected based on the following criteria-

- a) Candidate should have a B.Sc. (Hons.) in Agriculture and MS degree in Agronomy/Plant Biotechnology/Genetics and Plant Breeding from any recognized university.
- b) Candidate having related wet lab experiences will get preference.
- c) A good publication record will be an advantage for this position.
- d) A good command in English is preferable.

Scholarship: BDT20000 (Consolidated twenty thousand per month)

2) Research Assistant (part time) -(01)

The research assistant will part timely work under the supervision of the project management team. The major responsibilities include but not limited to-

- Support project PI, Co-PI and PhD fellow in conducting related research activities
- Data collection and analysis
- Reporting and publication
- Maintaining office and lab records

The candidate will be selected based on the following criteria-

- a. Candidate should have a BSc. (Hons.) in Agriculture, Or MS degree in Agronomy/Plant biotechnology/Genetics and Plant Breeding from any recognized university.
- b. Candidate having related wet lab experiences will get preference.
- c. A good command in English is preferable.

Remuneration: BDT5000 (Five thousand per month)

**Interested candidates are encouraged to send their CV to principal investigator
(saha.18@gmail.com / gopalagr@pstu.ac.bd)
by 15 July 2021**



প্রফেসর ড. গোপাল সাহা
প্রকল্প পরিচালক (LS20191193 project)
কৃষিতত্ত্ব বিভাগ
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Email: gopalagr@pstu.ac.bd

Ph. D. admission requirement at PSTU

An applicant for admission to a course of studies for the PhD degree shall possess at least one 1st class/Grade B in either Bachelor degree or Masters degree with thesis from this university having at least Second Class/Grade B- or an equivalent degree from any other university recognized by Postgraduate Studies, and at least one year experience in teaching/research/extension with one publication. However, requirement of the first class may be relaxed to 2nd class if an applicant possesses a minimum of 5 years experience in research/teaching/extension with at least three publications in recognized scientific journals. An applicant having 1st class with distinction either in Bachelor or Masters degree (A^+ /GPA = 4) is eligible for admission into PhD programme without any experience and publication.

Distribution for wider circulation:

1. PSTU Website (www.pstu.ac.bd)
2. Noticeboard at the premises of Dept. of Agronomy and Faculty of Agriculture, PSTU
3. Mailing lists of related professional fora.