



# KATHMANDU UNIVERSITY

SCHOOL OF ENGINEERING

Dhulikhel, P.O. Box 6250, Kathmandu, Nepal

Tel: (011) 661399, 661511, Fax: 977-1-5533543, (011) 661443, e-mail: info@ku.edu.np

03.07.2020

## **Application Call for Internships at Turbine Testing Laboratory**

Turbine Testing Lab (TTL) has been putting effort to develop its competence in R&D of Hydro turbines and sustainable development of Hydropower in Nepal. In this regards, various funded projects has been running under TTL.

Hereby, TTL calls application from the interested applicants with a strong motivation to work in different projects as an Internship/Trainee Student in a full-time basis.

### **Eligibility:**

Students at Kathmandu University currently eligible for MEEG 434 course.

### **Proposed Title and Domain (one students each):**

S.N.	Proposed activity	Domain
1	Exploration of Lagrangian based CFD codes for implementation in hydropower components	Hydropower
2	Use of OpenFoam in hydro-mechanical and electro-mechanical components of hydropower	Hydropower
3	Design and analysis of Pelton turbines	Hydropower
4	Design optimization of Francis turbine for sediment erosion	Hydropower
5	Develop guidelines for Manufacturing, Installation and Testing of Micro-Francis turbine	Hydropower
6	Policy interventions to rescue sick Micro/Mini hydropower plants in Nepal	Hydropower
7	Investigating sediment erosion in Francis runner with different blade profiles	Hydropower
8	Possibility of manufacturing pump impeller in Nepal	Hydropower
9	Develop the procedures for testing of Francis turbine at TTL	Hydropower
10	Operation and maintenance of Panauti HPP	Hydropower
11	Quality and reliability of power in national grid of Nepal	Hydropower
12	CFD applications in reverse engineering of Francis turbines	Hydropower
13	Technical specifications for producing hydrogen from a Micro/Mini hydropower plants	All
14	Design and safety of pressure vessels for storage and transport of Hydrogen from Micro/Mini hydropower plants	Design & Manufacturing
15	Feasibility scenarios for export of Green Hydrogen from Nepal by 2030	Energy Technology
16	Hydrogen Trucks for Nepal: Why and How	Automobiles

*Candidates having strong academics and project works related to relevant topics and will be given preference. The contract will be of 3 months period.*



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## Application procedure:

Candidates have to email following documents (as a single pdf file) in the name of Faculty In-Charge of turbine testing lab at [tll@ku.edu.np](mailto:tll@ku.edu.np) within 09.07.2010.

1. Cover Letter
2. CV
3. Research statement mentioning interest in preferred title.
4. Relevant Academic and Experience certificates
5. Recommendation letter from the Internship Coordinator at DOME.

Only shortlisted candidates will be called for interview.  
Salary and benefits would be as per TTL norms.

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Biraj Singh Thapa  
Asst. Professor, DoME,  
Faculty In-Charge, Turbine Testing Lab