

# ROYAL UNIVERSITY OF BHUTAN

## POSITION PROFILE

### • 1. JOB IDENTIFICATION [WATER RESOURCES ENGINEERING]

1.1	Position Title	:	Lecturer/Associate Lecturer/Assistant Lecturer
1.2	Position Level	:	PL-6/PL-5/PL-4
1.3	Occupational Group	:	Academic (International or National)
1.6	College/OVC	:	College of Science and Technology

### 2. MAIN PURPOSE OF THE POSITION:

- To carry out teaching, research and programme-based administrative works within the Water Resources Engineering Department
- Should be conversant and confident to teach any of the modules at the Degree Level Programme in Water Resources engineering (all level) and Civil Engineering (undergrad only) at any point of time.
- Required to teach at least two modules per semester.

### 3. GENERAL ROLES AND RESPONSIBILITIES:

#### Teaching

- Teach modules (full load) and support students projects within the subject area at the undergraduate level;
- Set and mark assessments, and advise students on their progress;
- Develop and deploy teaching-learning materials in area of own expertise;
- Plan and review own approach to learning;
- Take responsibility for organising own activities and for the management of allocated resources;
- Assist in programme document review or module review

#### Professional Services

- Contribute as resource persons, coordinators or organizers for various professional development activities within the College/University as well as for those outside.
- Participate in developing and promoting a clear vision of the College's/unit's strategic direction;
- Participate as a team member to support senior colleagues, who have delegated responsibility for specific strands of work/sub-units;
- Contribute to the operation of the University by participating in decision-making and governance including committees or taskforce as appropriate, at college and/or University level;
- Represent and promote the University externally – nationally and internationally e.g., managing relations with external partners and stakeholders;
- Coordinate the organization of conferences, seminars, workshops and/or working with relevant experts in the area of specialization; and
- Provide guidance to other staff and students

#### **4. SPECIFIC ROLES AND RESPONSIBILITIES:**

As a Lecturer/Associate Lecturer/Assistant Lecturer, following teaching responsibility shall be able to teach the modules for B E Water Resources Engineering programme. The tentative modules are as follows:

- Introduction to Water Quality
- Hydraulics
- Hydrology
- Hydrogeology
- Fluid Mechanics
- CAD Applications
- Introduction to RS and GIS in Water Resources
- Fluvial Hydraulics and Sediment Transport
- Watershed Management
- Climate Change and Water Resources
- Water Supply Systems
- Urban Drainage and Sanitation
- Water and Wastewater Treatment Technology
- Water Sustainability and Economics
- Environmental Flow Assessment
- Water Resource Modelling
- Flood Controls and River Training Works
- Environmental Impact Assessment
- Hydraulic Structures and Water Power Engineering

#### **Research and Innovation**

- Generate fund for the University through research projects and consultancy services;
- Supervise research projects and dissertation where these are part of the Programme(s) of study;
- Contribute to design of research projects and define methods such as conducting surveys and focused interviews;
- Carry out literature searches within pre-specified parameters;
- Run analysis/interpreting data using specified and agreed techniques/models;
- Prepare summary reports of research methods/findings;
- Contribute to dissemination and publication of research findings; and
- Carry out research projects on their own or as a lead in a team and publish some quality papers in reputed journals.

#### **5. KNOWLEDGE, SKILLS & ABILITIES (KSA) REQUIREMENTS**

##### **5.1 Education:**

MSc/MTech/ME in Water Resources Engineering/Management or BE/BSc/BTech in Water Resources Engineering /Environmental Engineering/ Civil Engineering (Preference will be given to Masters in WRE/Management or Bachelors in WRE/ Environmental Engineering)

**5.2 Experience:** The relevant experience shall be recognized as per the lateral entry criteria.

### **5.3 Knowledge Skills and Abilities**

- Ability to listen and being open to multiple views, perspectives, and feedback.
- Engagement in continuous learning and development, and committed to continuous improvement by way of recognising to change personal, interpersonal and managerial behaviour.
- Sound skills in research, analysis and dissemination of knowledge mainly by way of publication.
- Ability to master in a particular field of specialisation and provide excellent learning outcomes among the students.
- Ability to demonstrate high level of commitment to teaching.