

Graduate Research Assistant Opportunity – Remote Sensing & Hydrology University of Minnesota | Saint Anthony Falls Laboratory Department of Civil, Environmental, and Geo-Engineering

The **Hydrologic Sciences and Remote Sensing Lab** at the University of Minnesota seeks a **highly motivated and talented PhD student** to join our research team at the **Saint Anthony Falls Laboratory**. This position is available immediately, with a preferred start date in **Summer or Fall 2025**.

Our research focuses on the application of **advanced machine learning and deep learning methods** for **active and passive remote sensing of precipitation** using satellite observations. We are a dynamic group tackling pressing environmental and hydrological challenges through innovative, data-driven approaches.

Research Areas of Interest

- Machine and deep learning for remote sensing
- Satellite-based precipitation estimation

Minimum Qualifications

- B.S. or M.S. in Civil/Environmental Engineering, Earth & Atmospheric Sciences, Remote Sensing, or a related discipline
- Strong programming skills in **Python** or **MATLAB**
- Experience in data analysis and hydrologic/water quality modeling
- Strong analytical thinking and problem-solving ability
- Excellent communication skills (written and verbal)
- Prior research experience is highly desirable

What We Offer

- **Competitive stipend, full tuition waiver, and health insurance**
- Opportunities to present at **national and international conferences**
- Access to **state-of-the-art facilities** and resources at the Saint Anthony Falls Lab
- Collaboration with leading researchers in remote sensing and hydrology
- A vibrant, interdisciplinary research environment in a top-tier engineering program

Application Requirements

Please submit the following materials via email to **Dr. Ardeshir Ebtehaj** (ebtehaj@umn.edu) with the subject line:

“Graduate Research Assistant Application”

- Curriculum Vitae (CV)
- Academic transcripts
- **GRE Quantitative** and **TOEFL/IELTS scores** (for international applicants without peer-reviewed publications)

Note: Applications lacking GRE scores will not be considered.

Deadline

This position is open until filled. Applications are reviewed on a rolling basis, with preference for candidates able to start in **Summer or Fall 2025**.

Contact Information

Hydrologic Sciences & Remote Sensing Lab
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