

I am seeking a postdoctoral researcher to join my research group in the Department of Statistical Science at Baylor University. In recent years, my research group has focused on developing advanced statistical methods for monitoring and diagnosing multivariate data streaming in high frequency from complex engineered systems. In particular, we are interested in developing methods for modular, decentralized, and fit-for-purpose water and wastewater treatment. My group's work is supported by the National Science Foundation and most recently by the Department of Energy's Energy-Water Desalination Hub through the National Alliance for Water Innovation (NAWI) (**[MailScanner has detected a possible fraud attempt from "urldefense.com" claiming to be https://www.nawihub.org](#)**). NAWI has been selected for a five-year \$100 million award and has a bold and compelling vision for a new era for water resilience for U.S. communities and industries through distributed desalination and reuse in the U.S. enabled by Autonomous, Precise, Resilient, Intensified, Modular and Electrified (A-PRIME) water treatment systems. Many potential projects exist in collaboration with this group.

The successful candidate must have a PhD (or expect to receive it soon) in Statistics or closely related field and should have excellent verbal and written communication skills. The candidate is expected to interact with subject matter experts in water and wastewater treatment, materials engineering, and environmental engineering. The candidate is expected to conduct and publish cutting-edge research and will meet regularly with me to discuss research progress. The candidate will be fully supported to attend and present at professional conferences and workshops. The candidate may assist with mentoring statistics graduate students and with grant writing. Desired areas of expertise include, but are not limited to, the following:

- time series
- multivariate methods
- statistical process monitoring
- data-integrated process control
- high-performance computing

Baylor University is the oldest continuously-operating university in Texas and is a nationally ranked research institution. The university provides a vibrant campus community for over 17,000 students by blending interdisciplinary research with an international reputation for educational excellence and faculty commitment to teaching and scholarship. It is consistently ranked among the most beautiful college campuses in the country. Baylor is centrally located in Waco, Texas, within 2 hours drive of both Dallas and Austin and within 3 hours drive of Houston.

Applications should be emailed directly to Amanda Hering at [mandy\\_hering@baylor.edu](mailto:mandy_hering@baylor.edu) and include the following documents:

- Curriculum Vitae, including names and contact information for 2 academic references.
- Cover letter briefly stating why you are interested in joining this research group, your professional development and career goals, and in which ways your interests fit the research mission of this group.

This position will be renewed yearly up to **three years**. In order to receive full consideration, applications should be received by **October 31st, 2019**. The starting date is June 2020 but can be delayed to Fall 2020.