



College of Engineering
UNIVERSITY OF WISCONSIN-MADISON

NOW HIRING POSTDOCTORAL RESEARCH ASSOCIATES

Launch your career with an ARPA-E H2SENSE award winning team!

Join Professor Scott Sanders's research group at the UW-Madison College of Engineering and be at the forefront of developing a large-scale airborne hydrogen sensing system, a key element in advancing the clean energy economy both in the United States and globally.

A UNIQUE EXPERIENCE

- Develop, test, and refine optical hydrogen detectors with unprecedented sensitivity.
- Image hydrogen leaks from a distance.
- Collaborate with esteemed researchers such as Prof. Sage Kokjohn, Prof. Luca Mastropasqua, and Prof. David Rothamer.
- Participate in exciting off-site demonstrations, potentially at facilities like Washington State University's Outdoor Research Facility and Plug Power's green hydrogen plant in Georgia.
- Present results at conferences and in journal papers.
- Assist in leading a team of young researchers (undergraduate and graduate students).

TOOLS & TECHNOLOGY YOU WILL USE

- A \$1.3M portable laser that can access any wavelength in the 210–1100 nm range.
- High-speed scientific cameras.
- Advanced electrolyzers for generating hydrogen.
- Industrial-grade quadcopter drones.

OPPORTUNITY FOR GROWTH

The postdoctoral research associate commitment is two years. This position may extend into a full-time research position if the associate is qualified, productive, and successful.

TO APPLY

Start with a brief inquiry to:

Scott Sanders, PhD

Professor of Mechanical, Electrical, and Computer Engineering
3e8@me.wisc.edu | 608-576-2156



REQUIREMENTS

Qualified candidates will hold a PhD in a STEM field and demonstrate a strong drive and ability to work independently, with experience in conducting experimental research.

PREFERRED SKILLS

- Excellent communicator.
- Experience with lasers, optics, and the detection of weak optical signals.
- Familiarity with signal and/or image processing and optical spectroscopy.
- General understanding of fluid mechanics.

- **STARTING SALARY IS \$58,700 MINIMUM**
- **START ASAP**



INNOVATION THROUGH COLLABORATION

Join the **UW-Madison College of Engineering** as a postdoctoral research associate and enjoy a comprehensive benefits package, professional development opportunities, and access to cutting-edge research facilities. Collaborate with leading experts in a vibrant, supportive community that fosters innovation and interdisciplinary research. Madison, WI offers a high quality of life with numerous cultural and recreational activities, making it an ideal place to thrive both professionally and personally.

KEY DRIVERS OF ECONOMIC & SOCIAL PROGRESS

The College of Engineering plays a crucial role in UW-Madison's consistently high national ranking for research expenditures, as well as the number of patents filed through the Wisconsin Alumni Research Foundation (WARF), one of the oldest university technology-transfer offices in the nation. Through WARF, and endeavors such as spinoff companies and industry partnerships, the fruits of our research extend into businesses and industries worldwide.

TAKE PART IN THE WISCONSIN IDEA

The University of Wisconsin-Madison is the flagship campus of the UW System. Its research and teaching missions are deeply ingrained within the traditions of the Wisconsin Idea and academic freedom. The **Wisconsin Idea** is one of the longest and deepest traditions surrounding the University of Wisconsin, and it signifies a general principle that **education should influence people's lives beyond the boundaries of the classroom.**

Founded in 1849, UW-Madison is one of the nation's largest and most comprehensive research universities. It is comprised of 19 schools and colleges that offer 232 undergraduate majors and certificates, as well as over 250 master's, doctoral, and professional degree programs.

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