



IIHR—Hydrosience & Engineering, THE UNIVERSITY OF IOWA, has an immediate opening for a **Postdoctoral Research Scholar in experimental methods with applications in ship hydrodynamics** under the supervision of Professor Frederick Stern and Dr. Yugo Sanada. The initial appointment is full-time for 2 years, with the possibility of renewal subject to satisfactory performance and availability of continued funding. This is an immediate opening and applications will be considered until a successful candidate has been identified. Salary will be commensurate with qualifications and experience. Information regarding the Office of Postdoctoral Scholars can be found at <http://postdoc.grad.uiowa.edu>.

Required Education:

Ph.D. in mechanical or aerospace engineering, or closely related discipline prior to starting this position is required.

Required Qualifications:

Demonstrated interest in experimental methods with applications in ship hydrodynamics for physical understanding and computational fluid dynamics (CFD) validation data, including use of wave basin and/or towing tank facilities, free running models and tracking systems, and both global and local flow measurement systems along with use of integrated computational fluid dynamics for design of experiments and in support physical understanding and development of reduced order models.

Highest priority will be given to candidates with demonstrated expertise in advanced local flow measurement systems such as particle image velocimetry (PIV) and/or particle tracking velocimetry (PTV).

Strong coding experience and skills using HPC with MPI and programming languages (Fortran or C)

Excellent written and oral communication skills

The successful candidate will have the opportunity to work closely with faculty, staff, and students of IIHR-Hydrosience and Engineering (www.iihr.uiowa.edu), a national and global leader in environmental and fluids-related research, education, and service. The University of Iowa is one of the nation's top public research universities and is known around the world for its balanced commitment to the arts, sciences, and humanities. The University of Iowa is in Iowa City, a community built around higher education, with vibrant cultural opportunities and a long history of international connections, leadership, and accomplishment. Iowa City offers the safe, friendly quality of life for which the Midwest is known. Information regarding some of the resources that the University of Iowa and the local area provide can be found at (<https://worklife.uiowa.edu>).

Applicants should submit a resume with a list of at least three references and copies of selected publications, if appropriate, at <https://jobs.uiowa.edu/postdoc/view/3761>.

The University of Iowa is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination because of race, creed, color, religion, national origin, age, sex, pregnancy, disability, genetic information, status as a U.S. veteran, service in the U.S. military, sexual orientation, gender identity, associational preferences, or any other classification that deprives the person of consideration as an individual.