

ANNOUNCEMENT: May 2024

Open position: Postdoctoral Research Fellow Johns Hopkins Flow Science & Engineering Group

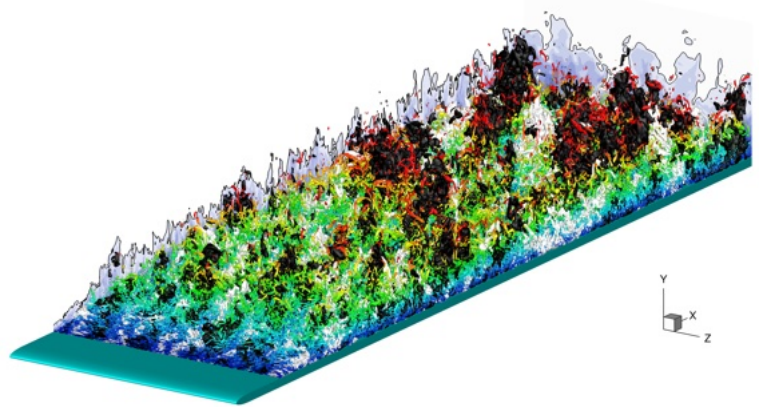
The Department of Mechanical Engineering at Johns Hopkins University (JHU) is seeking applicants for a post-doctoral fellowship in direct numerical simulations of turbulent boundary layers and the assimilation of physical measurements in the computations. Applicants with strong background in the following areas are encouraged to apply:

- Direct or large-eddy simulations of turbulent flows;
- Turbulence physics and vorticity dynamics;
- Analysis of big data from turbulence simulations;
- Data assimilation and nonlinear optimization;
- High-performance computing.

The researcher will work collaboratively with members of the *Flow Science & Engineering Group* (engineering.jhu.edu/zaki), led by Prof. Tamer Zaki. The experimental measurements will be provided by the team of Prof. Joseph Katz, also at JHU. The applicant must have demonstrated expertise in one of the relevant areas, specifically high-fidelity simulations, turbulence physics, data assimilation, high-performance computational methods, or data science. Applicants must hold a doctoral degree in Engineering, Physics, Applied Mathematics, Computer Science, or a related field. Interested applicants should send their CV with a cover letter and names of at least three references to t.zaki@jhu.edu. Application material should be submitted as a single PDF document.

Qualifications:

1. Ph.D. in Engineering, Physics, Theoretical and Applied Mechanics, Applied Mathematics, or related engineering or science discipline
2. Prior experience and contributions in computational fluid dynamics, numerical methods, data assimilation, and scientific computing.



Applications:

Interested applicants should send a CV with a cover letter, names of at least three references, and a summary of recent work and interests. All applications should be submitted electronically as a single PDF document to:

Prof. Tamer Zaki, t.zaki@jhu.edu

For additional information about the research activities, visit <http://engineering.jhu.edu/zaki/>

A start date of **June 2024** is envisioned. Review of applications will begin immediately and continue until the position is filled.

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