

Senior Research Assistant (Ref: 2401403)
Department of Mathematics and Information Technology

Project Title: Wellposedness and singularity formation of inviscid active scalar equations with even or odd constitutive laws

[Appointment Period: around 6 months]

We are seeking a high caliber candidate to help us study a general class of non-linear partial differential equations known as active scalar equations. The appointee will be responsible for analyzing the mathematical properties of active scalar equations. He/she will assist in addressing a general class of inviscid active scalar equations with even or odd constitutive laws, with emphases on (i) local/global-in-time well-posedness and (ii) possible singularity formation and propagation. He/she will also assist in performing other duties as assigned by the project leader. The initial appointment will be for a period of around 6 months with the possibility of renewal subject to mutual agreement.

Applicants should have a Master's degree in Applied Mathematics or Pure Mathematics, plus one year's post-Master's degree full-time working experience, or a doctorate in the abovementioned disciplines, with solid knowledge of analytical techniques used in partial differential equations. They should also be attentive to details, well-organized and self-motivated. Immediate availability is preferred.

For further enquiries about the post, please contact Dr. Suen Chun Kit Anthony at acksuen@eduhk.hk.

Salary will be commensurate with qualifications and experience. Fringe benefits include leave and outpatient medical benefits.

The University only accepts and considers applications submitted online for this post. Applicants should complete the [online application form](#) and upload a full CV on or before **13 December 2024**. Applications which are incomplete or without the required documents may not be considered. Personal data provided by applicants will be used for recruitment and other employment-related purposes. For details of the Personal Information Collection Statement, please refer to <http://www.eduhk.hk/jobsopp/index.php?glang=en>.

All applications will be treated in strict confidence. Only those who are shortlisted will be contacted. The University reserves the right not to fill the position(s) advertised.

Further information about the University is available at <http://www.eduhk.hk>.

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