

Research Assistant I (Two Posts) (Ref: 2500686)
Department of Mathematics and Information Technology

Project Title: Wellposedness and Singularity Formation of Inviscid Active Scalar Equations with Even or Odd Constitutive Law

[Appointment Period: around 4 months]

We are seeking a high caliber candidate to help us study a general class of partial differential equations known as inviscid active scalar equations. The appointee will be responsible for analyzing the mathematical properties of inviscid active scalar equations and their physical applications. He/she will assist in addressing a general class of inviscid active scalar equations with even or odd constitutive law, with emphases on (i) local/global-in-time existence of patch-type equations, and (ii) possible formation of finite time singularities. He/she will also assist in performing other duties as assigned by the project leader. The appointment will be for a period of around 4 months with the possibility of renewal subject to agreement.

Applicants should have a Bachelor's Degree in Mathematics, preferably have a Master's Degree or above, with solid knowledge of analytical techniques used in partial differential equations or other related areas. 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 **25 July 2025**. 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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