

## PDF Position Available – Modelling of Transport Processes of Orally-Administered Drugs

### The Position

Dr. Peichun Amy Tsai of the Department of Mechanical Engineering at the University of Alberta, in collaboration with an industry partner, invites applications and queries for a postdoc (PDF) position in the area of **Transport Phenomena**, using **Computational Fluid Dynamics and Numerical Modelling approaches**.

This position will be open to candidates who possess relevant degrees in Mechanical/Chemical Engineering or Physics. **Applicants with expertise and experience in modelling of transport phenomena and computational fluid dynamics (CFD) are highly encouraged to apply.** This position is available to Canadian citizens, permanent residents of Canada, and international applicants. It is expected that the successful candidate will take up the position in Fall 2021 or Winter 2022. Interested candidates may wish to visit Tsai group website at <https://sites.ualberta.ca/~peichun>.

### The Project

The proposed research project primarily aims to study various transport phenomena of drugs in pharmaceutical applications (such as drug dissolution, transportation, and absorption) using computational fluid dynamics. Prior knowledge on pharmaceutical kinetics is not required, but previous experience and training on CFD and transport phenomena are essential. Additional CFD projects are available.

### Application Procedure

Candidates are asked to submit complete applications, which include: **i) a cover letter**; **ii) a detailed curriculum vitae** highlighting career achievements, areas of research, a list of publications, awards and honours, and a list of three professional references; **iii) a statement of research** interest, expertise, and experience (maximum 1 page); and **iv) up to 3 samples** of the candidate's significant work.

Interested candidates should send their completed application packages and direct queries to **Dr. Peichun Amy Tsai** by email at [peichun.amy.tsai \(at\) ualberta.ca](mailto:peichun.amy.tsai@ualberta.ca) . The position will remain open until fill.