

Postdoc in CFD - WRF  
University of Houston

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Posted Nov. 18, 2020, set to expire Mar. 20, 2021

<b>Job Title</b>	Postdoc in CFD - WRF
<b>Department</b>	Civil and Environmental Engineering
<b>Institution</b>	University of Houston Houston, Texas
<b>Date Posted</b>	Nov. 18, 2020
<b>Application Deadline</b>	Feb. 1, 2021
<b>Position Start Date</b>	Feb. 1, 2021
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Planetary Sciences Planetary Sciences Physics - General Physics - General Earth Sciences Earth Sciences Atmospheric Sciences Atmospheric Sciences Sciences - General Sciences - General
<b>Job Website</b>	<a href="https://uh.edu/efm">https://uh.edu/efm</a>
<b>Apply By Email</b>	<a href="mailto:mmomen@uh.edu">mmomen@uh.edu</a>

**Job Description**

The environmental fluid mechanics group at the University of Houston has an open Post-doc position in computational fluid dynamics (CFD) to start in February 2021.

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The post-doc will be responsible to conduct multiple state-of-the-art numerical weather prediction and large eddy simulations of turbulent environmental flows with urban and coastal applications. The post-doc is expected to perform postprocessing of big environmental data to gain insights into different fluid dynamics phenomena with a particular focus on extreme weather events (e.g., hurricanes).

### Required qualifications:

- A Ph.D. degree in engineering, meteorology, physics, or other closely related fields
- Strong hands-on experience with at least one programming language such as Fortran, C/C++, Python, or MATLAB
- In-depth knowledge of fluid dynamics, turbulence, and boundary layers
- Publications in internationally recognized journals
- Strong motivation to perform cutting-edge research and to publish high-impact papers

### Preferred qualifications:

- Strong experience in developing numerical models and computational algorithms
- Strong experience with parallel computing (e.g., MPI)
- Proficiency in Linux computing environment
- Experience with WRF

Candidates with prior experience in working with Weather Research Forecasting Model (WRF) code and high-performance computing are highly encouraged to apply.

The position is available for January/February 2021. Interested candidates should send their up-to-date CV and a short cover letter (maximum 1-page) to Dr. Mostafa Momen [mmomen@uh.edu](mailto:mmomen@uh.edu). Please note that the title of your email should start with "Postdoc-EFM-CFD". In the cover letter, please include any relevant published papers, your research interests, as well as your future career goals. The review of candidates will begin immediately and continue until the position is filled.

The civil engineering program at the University of Houston is ranked #62 in the USA according to the 2019 U.S. News and World Report rankings. The civil engineering program also is ranked 101-150 in the world according to the 2018 Shanghai Ranking. The University of Houston is located in a park-like campus a few minutes from downtown Houston. Houston is the fourth-largest city in the U.S. and is the "energy capital of the world". The greater Houston area offers state-of-the-art recreational facilities, world-class arts and cultural activities, and affordable housing.

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**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Mostafa Momen  
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University of Houston  
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