

## **Research Professor in Fusion Plasma Physics**

*Open Friday, May 29th, 2020 through Friday, Jun 14, 2020 at 11:59pm (Korea Standard Time)*

UNIST Fusion Plasma Research Center (Head: Professor Yongkyoon In) in Ulsan, Korea is seeking applications for a Research Professor in the area of magnetohydrodynamics (MHD)-related Fusion Plasma Physics or Laser Diagnostics. This position will be primarily focused on experimental and simulation work to address the physics mechanisms of various critical transitions on plasma edge and divertor under the influence of external 3-D magnetic field, such as resonant magnetic perturbation (RMP)-driven, edge-localized-mode (ELM) control. The experimental work will be conducted in close collaboration with the KSTAR tokamak team, utilizing the advanced ECE imaging diagnostics (ECEI) and divertor IR camera, along with a set of simulation/interpretation tools. On the other hand, if the laser expertise prevails, the development of neutral particle density measurement diagnostics using two-photon absorption laser-induced fluorescence (TALIF) is an alternative focus we would consider.

Qualified candidates will have received a Ph.D. in Physics or affiliated discipline, and should be able to substantiate the meritorious background. The initial appointment will be for a 12-month time frame (2020.9.1.- 2021.8.31.) with a possible multi-year extension, while the starting date is subject to change. The salary will be commensurate with UNIST pay-scale standards. Candidates should provide a curriculum vita, a publication list and arrange for 3 letters of reference, if requested, to be sent to [SNS\\_recruit@unist.ac.kr](mailto:SNS_recruit@unist.ac.kr). For full consideration, applications should be received by June 14, 2020. Should there be any job description questions, please feel free to contact Professor Yongkyoon In ([inyongkyoon@unist.ac.kr](mailto:inyongkyoon@unist.ac.kr)).

**Requirements** (as listed at <https://www.unist.ac.kr/category/notifications/careers-postings/>)

Application Form

Curriculum Vitae

Publication list