

## Open Post-Doctoral Positions

**Indo-Korea Science and Technology (IKST) Center, located at Bangalore**, is the Indian branch of **Korea Institute of Science and Technology (KIST), Seoul**, funded by Government of Korea.

IKST was established in 2010 and is responsible for promoting collaboration between Indian and Korean research scientists and Institutes to work on problems of common interest and develop new technologies.

Computational material science and data analytics (machine learning) are the areas of current interest for IKST, and topics of active collaboration with researchers in Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore and Indian Institute of Technology, Bombay, Indian Institute of Technology, Bhubaneshwar and Center for Scientific and Industrial Consultancy (CSIC), Bangalore.

Apart from collaborative research program, IKST also has a small internal R&D team working in the area of Computational Material Science and Computer Vision. Most of the material science work involves quantum calculations (based on density functional theory) or multi-scale simulations for diverse systems that includes catalysts, III-V semiconductors, and structural materials.

As part of expanding the research team, we have immediate opening for post-doctoral research fellows in the following areas:

- (1) **Semiconductors** – the candidate should have background in density functional theory (DFT) based calculations, analyzing band structure and calculating relevant electronic properties of the system. Candidate should also be aware of the state-of-the-art methods and techniques specific for semiconductors. The candidate will work closely with researchers in the area of III-V semiconductors. The candidate should have a PhD degree in Physics/Chemistry/Material Science (candidates who have submitted the thesis may also be considered).
- (2) **Metallic system/structural materials** - the candidate should have some background in first-principles modelling of metals, preferably structural materials (steel, superalloys, Mg-alloys etc.). Candidate should have basic knowledge of thermodynamics, mechanical and electronic properties of materials, and should be able to relate them to electronic structure calculations. The candidate is expected to be strong in computational methods, and should have hands-on experience in developing scripts/codes. A PhD in Physics/Material Science/Metallurgy is a must (those who have submitted their thesis are also welcome to apply).

*Candidates with experience in related areas of material modelling at atomic scale (other than DFT) are also welcome to apply.*

*Candidate for the above positions are expected to have strong verbal and written communications skills, with good track record of scientific publications in reputed peer-reviewed journals. The candidate is also expected to work independently, often in close collaboration with internal and external researchers.*

Interested candidates can write, along with their CV, to:  
[careers@ikst.res.in](mailto:careers@ikst.res.in) before 15<sup>th</sup> June, 2018

Shortlisted will be getting an email/call from HR team to pursue with further formalities  
To know more about IKST and its activities, visit  
[www.ikst.res.in](http://www.ikst.res.in)