

## **Post-doctoral position in Plasma-Materials Science at the University of Minnesota, USA**

A post-doctoral position is available in the group of Professor Uwe Kortshagen, which is part of the High Temperature and Plasma Laboratory in the Department of Mechanical Engineering at the University of Minnesota.

Kortshagen's group is known for the synthesis of nanomaterials with low temperature plasmas. Materials studied include semiconductor quantum dots, ceramic nanomaterials, and metal nanoparticles for applications in renewable energy generation, electronic and photonic materials, energy storage and energetics. The post-doctoral researcher is expected to contribute to multiple projects and take leadership in mentoring Ph.D. and M.S. level graduate students and undergraduate students.

Desirable qualifications include:

- A strong background in experimental low temperature plasma science, including design and operation of plasma reactors, familiarity with plasma diagnostics, and a solid basic understanding of low temperature plasmas
- Willingness to work in teams with graduate and undergraduate students
- Strong written and verbal communication skills
- Familiarity with materials characterization techniques such as X-ray diffraction, electron microscopy, X-ray photo electron spectroscopy, and Fourier transform infrared spectroscopy is desirable but not required

Interested applicants may contact Professor Uwe Kortshagen ([kortshagen@umn.edu](mailto:kortshagen@umn.edu)) for more information.

Formal applications need to be submitted through the University of Minnesota Human Resources system under Job ID 341592 (<https://hr.myu.umn.edu/jobs/ext/341592>).