GKSS FORSCHUNGSZENTRUM IN DER HELMHOLTZ-GEMEINSCHAFT

Unternehmen Großforschung

Grundlagen für morgen

The GKSS Research Centre is located in Geesthacht near Hamburg, Germany, with a further centre in Teltow near Berlin, and is a member of the Helmholtz Association of German Research Centres. With its approximately 700 employees it undertakes, in collaboration with universities and industry, research and development in the areas of coastal research, materials research, regenerative medicine, and structure research with neutrons and synchrotron radiation.

The GKSS Research Centre operates the Geesthacht Neutron Facility GeNF using the reliable medium flux neutron source FRG-1 (http://genf.gkss.de) and runs a centre for materials research based on the complementary use of synchrotron and neutron radiation in Geesthacht and at the GKSS outstation at DESY. In addition we operate a growing outstation at the new neutron source FRM II in Munich participating at various neutron scattering instruments.

The radiography and tomography instrument GENRA-3 is an outstanding instrument at GeNF with in-house and external research projects and a large number of industrial applications, e.g. in the fields of damage analysis and NDT. In this framework we are looking for a

Scientist (Postdoc) - Code-No. W 7 (Geesthacht)

who will be in charge of operating the Genra-3 instrument, including the further development of radiographic and tomographic methods.

In this position you will support external users during the experiment, including evaluation and publication of results, and deal with orders from industry. This position will allow you to continue and develop your own scientific research program using neutron and X-ray radiography and tomography. Within this context, international collaborations as well as cooperation with staff members and other scientists at GKSS are highly encouraged.

In addition we are looking for a

Scientist (Postdoc) - Code-No. W 8 (Geesthacht)

in the field of residual stress analysis with diffraction methods who will take part in operating and further developing the strain scanner ARES-2. In this position you will support external users during experiment, evaluation, and publication of results as well as deal with scheduled orders from industry. Opportunities for gaining additional qualifications by cooperation with internal partners, especially in the field of joining techniques, are available. Current topics in this field are friction stir welding as well as laser beam welding for aircraft construction. In addition, you will also deal with fundamental problems of diffraction-based stress analysis. Ideally, you already have a working knowledge in the mechanics of materials and experience with diffraction methods for residual stress analysis.

Furthermore we are looking for a

Scientist (Postdoc) - Code-No. W 9 (Garching close to Munich)

in the field of nanomagnetism, soft matter and/or biology who should have experience with (polarised) neutron reflectometry and diffuse scattering for the study of vertically and laterally structured thin layers in the mentioned research fields. You will be co-responsible for our neutron reflectometer REFSANS at FRM II with the mission to take care of external users as well as to contribute to further instrumental development of REFSANS for polarized and inelastic reflectometry. In addition you will be integrated into exciting research efforts in the fast moving field of characterizing nanostructures in cooperation with external partners.

For all three positions a Ph.D. or equivalent in materials science and engineering, physics, chemistry or a related field is mandatory. Besides good communication skills, the positions require excellent experience in the respective scattering techniques using neutrons or synchrotron radiation, ideally in the field of materials research. We expect good English language skills; German language skills are an asset.

A fast familiarization with new topics is a personal challenge for you. You should be familiar with complex experiments and control software. You have adopted a purposeful and result-oriented way of working and are able to realize this in a team. You are flexible and communicative in your approach with collaborators and you give priority to the success of a project and your team. You are used to publishing the results of your work and presenting them at international conferences.

All three appointments will initially be for 3 years with the possibility of extension. We offer an appropriate salary, related to TV-AVH, as well as the usual public sector social benefits.

The GKSS is an equal opportunity/affirmative action employer seeking to increase the proportion of female faculty members. Qualified women are therefore especially encouraged to apply. Handicapped persons with equal qualifications will be preferred.

For inquiries please contact Dr. Klaus Pranzas (pranzas@gkss.de).

Please send your application with reference to the corresponding code including CV with photo and references to the email address given above or to our Personnel-Division. The closing date for applications is two weeks after publication of this advertisement.

GKSS • FORSCHUNGSZENTRUM GEESTHACHT
MAX-PLANCK-STRASSE 1 • 21502 GEESTHACHT/GERMANY