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 (HGF). With its approximately 800 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 Institute of Materials Research in Geesthacht invites applications for a 1-**year** position:

Research Scientist - Code-No.: 2009/WM 1

Project description

The project will focus on the modelling of crack propagation in complex engineering structures. The understanding of such phenomena is of utmost importance for predicting the ultimate load as well as the damage tolerance of mechanical systems and thus, it is essential for estimating their safety. The goal of the project is the development of a discretization-independent (convergent) numerical method by combining novel cohesive models with adaptive finite element formulations.

Requirements

PhD in one of the following areas: mechanical engineering, (computational) material science, computational engineering or physics. Good knowledge in continuum mechanics, computational mechanics and material modelling is vital. Language (fluent English and preferably also German) and computational skills are indispensable.

We offer an appropriate salary, related to TV-AVH as well as the usual public sector social benefits.

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.

Please send your application indicating **Code-No.: 2009/WM 1** with CV and references **until 2. October 2009** to **GKSS-Forschungszentrum Geesthacht GmbH, Personalabteilung, Max-Planck-Str. 1, 21502 Geesthacht, Germany,** or via E-Mail to personal@gkss.de.