



The Division of Dispersive Solids at the Darmstadt University of Technology (TUD), Department of Material Science, Germany invites highly motivated students with a diploma (or equivalent) degree in physics/chemistry/ material science /geoscience/ to apply for a

PhD position (BAT IIa/2) in high-pressure research on nitride based materials

The research is focused on the high-pressure and high-temperature synthesis of nitride based materials and their structural, mechanical and electric investigation. Experience in experimental high-pressure techniques (laser-heated diamond anvil cell technique) will be considered as a major advantage. Collaboration with the existing groups in current projects at the institute is highly desired. The position (BAT IIa/2) is available immediately and for three years.

Current research activities in the Division of Dispersive Solids are focused on:

- the synthesis, cross-linking behaviour and thermolysis of inorganic polymers to form novel oxidic and non-oxidic high performance ceramics
- synthesis of novel binary and ternary superhard phases at high-pressure and high-temperature using laser heated diamond anvil cell (DAC) and multi anvil (MA) techniques
- investigation of thermal, mechanical and electrical properties of novel materials

For further informations about the Division of Dispersive Solids, please visit our homepage: <http://www.tu-darmstadt.de/fb/ms/fg/df/index.html>

Interested candidates should submit their applications including CV and university records to

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