



Short-term Scholarships at Ruhr-University Bochum

The **Collaborative Research Center “Interaction Modeling in Mechanized Tunneling” (SFB 837)** at Ruhr-University Bochum, Germany, funded by the German Research Foundation, is devoted to the development of novel computational models and simulation methods, data integration concepts, geophysical methods, tunneling technologies, new materials and structural design strategies. It thus aims at improving the understanding of the interactions between the tunneling process and the environment, the assessment and reduction of potential risks, as well as the enhancement of both the efficiency and safety in mechanized tunneling.

The Collaborative Research Center SFB 837 invites applications for

- **Short-term scholarships for international (non-German) guest researchers (Ph.D. researchers & PostDocs)** performing research in areas closely related to the SFB 837. The scholarship enables awardees to conduct a research visit of up to three months at institutes related to the SFB 837 at Ruhr University Bochum.
- **Fast-Track scholarships (“Bachelor to Ph.D.”) in “Computational Engineering”**. The scholarship is restricted to M.Sc. candidates with a “Bachelor of Honors” Degree (or equivalent). It provides financial support for the first year of a “Fast-Track” version of the Master degree program “Computational Engineering” at Ruhr University Bochum (for details we refer to www.rub.de/sfb837).
- **Short-term scholarships for Ph.D. candidates**. The scholarship supports the initial phase (up to one year) of a Ph.D. to be performed in one of the research areas of the SFB 837. Prerequisites are an excellent M.Sc. degree and a specific research proposal related to one of the research fields of the SFB 837.

The Short-term Scholarships offer Ph.D. candidates unique chances to conduct interdisciplinary research within 15 scientific projects covering a wide range of disciplines, amongst them computational mechanics, geomechanics, geophysics, informatics, geomechanics and tunneling engineering and material sciences. In addition to computational modeling and simulation, the research program also involves a high amount of experimentally oriented research. For further information please refer to www.rub.de/sfb837.

We are looking for outstanding research-minded individuals with an excellent M.Sc. or equivalent degree (Bachelor degree in case of Fast-Track scholarships) in Civil Engineering, Mechanical Engineering, Geosciences, Mathematics, Physics or Informatics. The positions offer scholars the possibility to perform top level research in the specified disciplines within a team of approx. 30 researchers and a stimulating environment supplemented by participation in seminars, short courses and international conferences. A broad spectrum of valuable additional qualifications is provided by the RUB Research School (www.research-school.rub.de).

Applications will be accepted until the positions are filled. Applicants send their documents via E-mail to:

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