

The German-Korean International Research Training Group (IRTG) 2235 "Searching for the regular in the irregular: Analysis of singular and random systems" funded by the Deutsche Forschungsgemeinschaft (DFG) offers several part-time

PhD positions

starting April 1st, 2021 (or earlier)

(E13 TV-L, non-permanent positions)



Your Tasks

The IRTG is a joint research program established by the Faculty of Mathematics at Bielefeld University, Germany, and the Department of Mathematical Sciences at Seoul National University, South Korea. In a truly international and competitive environment, doctoral students will study singular and random systems (60 %). The IRTG concentrates on advanced techniques from the mathematical field of Analysis including Geometric, Stochastic and Numerical Analysis together with latest developments in neighboring fields such as Mathematical Physics and Probability Theory. The focus is on the mathematical analysis of problems which generically exhibit singular features or randomness. The topics include stochastic dynamics, stochastic partial differential equations, machine learning, nonlinear wave equations, integrodifferential equations, random matrices, generalized Dirichlet forms, analysis on manifolds and fractal metric spaces. The IRTG offers a structured course program in English (15 %) and a six-months research stay at Seoul National University (15 %). Doctoral students are required to write annual reports about their research progress (10 %).

Your Profile

We expect

- an excellent Master degree (or an equivalent degree) in Mathematics, Mathematical Physics or a neighboring field
- proficiency in English
- good communication skills

Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L) (depending on previous professional experience starting at approx. 1600€ monthly net income). As stipulated in § 2 (1) sentence 2 of the WissZeitVG (fixed-term employment), the contracts will end after three years. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contracts may differ in individual cases. The employment is designed to encourage further academic qualification. The positions are advertised as 75 % part-time jobs. In individual cases, this percentage may be reduced on request, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to the career development and equal opportunities of its employees. It offers attractive internal and external training and further training programs. Employees have the opportunity to use a variety of health, counselling, and prevention programs. Bielefeld University places great importance on a workfamily balance for all its employees.

Application Procedure

For full consideration, your application should be received via either post (see postal address below) or email (a single PDF document) sent to <u>irtg@math.uni-bielefeld.de</u> by **December 15th, 2020**. Please mark your application with the identification code **wiss20238**. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure. Further Information about Bielefeld University can be found on our homepage at <u>www.uni-bielefeld.de</u>. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. Information on the processing of personal data is available <u>https://www.uni-bielefeld.de</u>.

Application documents

(a) Application form (<u>https://irtg.math.uni-bielefeld.de/_media/doctoral_positions/application_form_irtg2235_2020.pdf</u>) (b) CV

- (c) Transcript of records, including:
- 1st university degree or intermediate examination (e. g. B.Sc., Vordiplom)
- 2nd university degree (e. g. Master, Diploma), or intermediate results if in progress
- if applicable: transcript of additional university degree(s)
- (d) Copy of each publication (including Diploma / Master thesis)

(e) Letter of application stating your motivation, qualification, main scientific experiences, and a brief outline of your current and future scientific interests (1 page)

(f) One letter of recommendation from an experienced scientist. For reasons of privacy, the letters should be sent to us by the referees directly (to IRTG@math.uni-bielefeld.de). In the application form we ask you to name two further scientists who would be willing to write a letter of recommendation to support your application.

(g) Handicapped or severely handicapped persons can indicate this status on the application form. In this case, please enclose a corresponding certificate.

Postal Address

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Contact

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Bielefeld University has received a number of awards for its achievements as an equal-opportunity employer and has been recognized as a family-friendly university. The university welcomes applications from women. This is particularly true with regard both to academic and technical posts as well as positions in information technology as well as the skilled crafts and trades. Applications are handled according to the provisions of the state statues on equal opportunity. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.

