



The research group on Multiscale and Stochastic Dynamics (www.multiscale.systems) at the Technical University of Munich seeks candidates for the following position:

doctoral researcher (3-year)

Interested candidates should have an interest or background in (at least one) of the following areas:

dynamics, differential equations, networks, numerics, or stochastics

The position is funded within the interdisciplinary [BeyondTheEdge project](#) (see description below) with a duration of up to **36 months**. The successful candidate will join the research activities of the Multiscale and Stochastic Dynamics group at TUM and contribute to the development of the BeyondTheEdge project with a focus on dynamics of adaptive higher-order networks. The salary scale is an EU-ITN contract, i.e., a standard doctoral position. The project is carried out in collaboration with several groups within the BeyondTheEdge Project Team located across Europe. The position will be based in Munich. There is a **mobility requirement**: You must not have resided or carried out your main activity (e.g. work, studies) in Germany for more than 12 months in the 3 years immediately before the recruitment date.

Further Requirements:

Master-degree or equivalent (completed already or to be completed by October 2024)

strong technical background in mathematics or physics

interest in an international doctoral program

good English language skills (written and oral)

excellent grades

Application Materials

CV + publication list

transcript(s) for bachelor-/master-level studies

names and full contact addresses of at least two references

brief statement of scientific interests / motivation

should be sent as **ONE** PDF-file to: ckuehn@ma.tum.de

Evaluation of applications may start immediately, the main application deadline is: **March 31st 2024**. However, applications may be accepted until the position is filled. Once the position is filled, this will be announced on the webpage: <http://www.multiscale.systems/jobs.html>

About the [BeyondTheEdge project](#): The project will identify the role of nonpairwise higher-order interactions in the emergence of complex dynamical behaviour of networks of interacting units. BeyondTheEdge brings together key researchers in an international network that is interdisciplinary. BeyondTheEdge will train a cohort of 10 PhD students through research, education, and complementary skills training. This will enable the PhD students to innovate, collaborate, and become leading professionals. [This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No Grant Agreement No. 101120085].

Informal inquiries regarding the position should be directed to ckuehn@ma.tum.de

[Department of Mathematics](#)
[Technical University Munich](#)
www.multiscale.systems